

FILEID**NMLLOGOPS

NN	NN	MM	MM	LL	LL	000000	GGGGGGGG	000000	PPPPPPPP	SSSSSSSS	
NN	NN	MM	MM	LL	LL	000000	GGGGGGGG	000000	PPPPPPPP	SSSSSSSS	
NN	NN	MMMM	MMMM	LL	LL	00	00	00	PP	PP SS	
NN	NN	MMMM	MMMM	LL	LL	00	00	00	PP	PP SS	
NNNN	NN	MM	MM	LL	LL	00	00	00	PP	PP SS	
NNNN	NN	MM	MM	LL	LL	00	00	00	PP	PP SS	
NN NN	NN	MM	MM	LL	LL	00	00	00	PPPPPPPP	SSSSSS	
NN NN	NN	MM	MM	LL	LL	00	00	00	PPPPPPPP	SSSSSS	
NN NNNN	MM	MM	LL	LL	00	00	GG	GGGGGG	00	PP	SS
NN NNNN	MM	MM	LL	LL	00	00	GG	GGGGGG	00	PP	SS
NN NN MM	MM	LL	LL	00	00	GG	GG	00	PP	SS	
NN NN MM	MM	LL	LL	00	00	GG	GG	00	PP	SS	
NN NNNN	MM	LL	LL	000000	GGGGGG	000000	GGGGGG	000000	PP	SSSSSS	
NN NNNN	MM	LL	LL	000000	GGGGGG	000000	GGGGGG	000000	PP	SSSSSS	
NN NN MM	MM	LL	LL	000000	GGGGGG	000000	GGGGGG	000000	PP	SS	
NN NN MM	MM	LL	LL	000000	GGGGGG	000000	GGGGGG	000000	PP	SS	

LL		SSSSSSSS
LL		SSSSSSSS
LL		SS
LLLLLLLL		SSSSSSSS
LLLLLLLL		SSSSSSSS

NM
VO

```
1 0001 0 XTITLE 'NML Logging data base operations module'  
2 0002 0 MODULE NMLSLOGOPS {  
3 0003 0   LANGUAGE (BLISS32),  
4 0004 0   ADDRESSING_MODE (EXTERNAL=LONG_RELATIVE),  
5 0005 0   ADDRESSING_MODE (NONEXTERNAL=LONG_RELATIVE),  
6 0006 0   IDENT = 'V04-000'  
7 0007 0   ) =  
8 0008 1 BEGIN  
9 0009 1 *****  
10 0010 1 *  
11 0011 1 *  
12 0012 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY  
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29 0029 1 *  
30 0030 1 *  
31 0031 1 *****  
32 0032 1 :  
33 0033 1 :  
34 0034 1 ++  
35 0035 1 : FACILITY: DECnet-VAX V2.0 Network Management Listener  
36 0036 1 :  
37 0037 1 : ABSTRACT:  
38 0038 1 :  
39 0039 1 :     These routines handle all logging data base operations.  
40 0040 1 :  
41 0041 1 : ENVIRONMENT: VAX/VMS Operating System  
42 0042 1 :  
43 0043 1 : AUTHOR: Distributed Systems Software Engineering  
44 0044 1 :  
45 0045 1 : CREATION DATE: 26-JUN-1980  
46 0046 1 :  
47 0047 1 : MODIFIED BY:  
48 0048 1 :     V03-002 MKP0002      Kathy Perko    23-Nov-1982  
49 0049 1 :           Add module as a source for events.  
50 0050 1 :  
51 0051 1 :     V02-001 MKP0001      Kathy Perko    16-Nov-1981  
52 0052 1 :           Add circuit entity as a logging source type.  
53 0053 1 :  
54 0054 1 :--  
55 0055 1 :
```

```
: 57      0056 1 %SBTTL 'Declarations'  
: 58      0057 1  
: 59      0058 1 !  
: 60      0059 1 ! TABLE OF CONTENTS:  
: 61      0060 1 !  
: 62      0061 1 !  
: 63      0062 1 FORWARD ROUTINE  
: 64      0063 1     NML$ADDFILTERS,  
: 65      0064 1     NML_MODFIL,  
: 66      0065 1     NML_MODCLS,  
: 67      0066 1     NML_MODKNO,  
: 68      0067 1     NML$GETSPCFILTERS,  
: 69      0068 1     NML$GETCOMFILTERS,  
: 70      0069 1     NML$GETGBLFILTERS,  
: 71      0070 1     NML$CLEANEVT      : NOVALUE,  
: 72      0071 1     NML$CLEANSRC      : NOVALUE,  
: 73      0072 1     NML$MATCHSRC,  
: 74      0073 1     NML$GETNXTSNK,  
: 75      0074 1     NML$GETNXTSRC,  
: 76      0075 1     NML$MATCHEVT,  
: 77      0076 1     NML$GETNXTEVT,  
: 78      0077 1     NML$BLDSRC      : NOVALUE,  
: 79      0078 1     NML$BLDEVT      : NOVALUE,  
: 80      0079 1     NML$ADDSRC,  
: 81      0080 1     NML$REPSRC,  
: 82      0081 1     NML$REMSRC      : NOVALUE,  
: 83      0082 1     NML$ADDEVT,  
: 84      0083 1     NML$MODEVT      : NOVALUE,  
: 85      0084 1     NML$REMEVT      : NOVALUE;  
: 86      0085 1 !  
: 87      0086 1 !  
: 88      0087 1 ! INCLUDE FILES:  
: 89      0088 1 !  
: 90      0089 1 !  
: 91      0090 1 LIBRARY 'LIBS:NMLLIB.L32';  
: 92      0091 1 LIBRARY 'SHRLIBS:NMALIBRY.L32';  
: 93      0092 1 LIBRARY 'SYSSLIBRARY:STARLET.L32';  
: 94      0093 1 !  
: 95      0094 1 !  
: 96      0095 1 ! OWN STORAGE:  
: 97      0096 1 !  
: 98      0097 1 !  
: 99      0098 1 OWN  
:100      0099 1     NML$T_EVTBUFFER : BBLOCK [EVT$K_LENGTH],  
:101      0100 1     NML$T_SRCBUFFER : BBLOCK [NML$K_RECVFLÉN];  
:102      0101 1 BIND  
:103      0102 1     NML$Q_EVTBFDESC = UPLIT (EVT$K_LENGTH, NML$T_EVTBUFFER) : DESCRIPTOR,  
:104      0103 1     NML$Q_SRCBFDESC = UPLIT (NML$K_RECVFLÉN, NML$T_SRCBUFFER) : DESCRIPTOR;  
:105      0104 1 !  
:106      0105 1 !  
:107      0106 1 ! EXTERNAL REFERENCES:  
:108      0107 1 !  
:109      0108 1 !  
:110      0109 1 SNML_EXTDEF:  
:111      0110 1 !  
:112      0111 1 EXTERNAL LITERAL  
:113      0112 1     NML$GK_EVENTS:
```

NML\$LOGOPS
V04-000

NML Logging data base operations module
Declarations

H 8
16-Sep-1984 00:10:25
14-Sep-1984 12:50:11

VAX-11 Bliss-32 V4.0-742
[NML.SRC]NMLLOGOPS.B32;1

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```
: 114      0113 1
: 115      0114 1 EXTERNAL
: 116      0115 1   NML$AB_EVENTS : BBLOCKVECTOR [0, ETB$K_ENTRYLEN];
: 117      0116 1
: 118      0117 1 EXTERNAL ROUTINE
: 119      0118 1   NML$ERROR_2;
: 120      0119 1
```

```
: 122      0120 1 %SBTTL 'NMLSADDFILTERS Add event filters for sink node'
: 123      0121 1 GLOBAL ROUTINE NMLSADDFILTERS
: 124          (FCT, BUFDSC, SNK, SRC, ENTDSC, CLASS, MSKLEN, MSKPTR, RESDSC) =
: 125
: 126      0124 1 ++
: 127      0125 1 FUNCTIONAL DESCRIPTION:
: 128          This routine adds event filters to the data base entry for a sink
: 129          node.
: 130
: 131      0129 1 FORMAL PARAMETERS:
: 132      0130 1
: 133      0131 1
: 134          FCT           Function code. (0=CLEAR/PURGE, 1=SET/DEFINE)
: 135          BUFDSC        Descriptor of buffer to contain modified data base
: 136          entry.
: 137          SNK            Logging sink type code.
: 138          SRC             Event source type code.
: 139          ENTDSC         Event source id string descriptor.
: 140          CLASS          Event class code.
: 141          MSKLEN         Length of filter mask.
: 142          MSKPTR         Address of filter mask.
: 143          RESDSC         Descriptor of data in buffer.
: 144
: 145      0143 1 IMPLICIT INPUTS:
: 146      0144 1
: 147          NML$GB_EVTMSKTYP
: 148
: 149      0146 1 IMPLICIT OUTPUTS:
: 150      0147 1
: 151      0148 1
: 152      0149 1
: 153      0150 1
: 154      0151 1 ROUTINE VALUE:
: 155          COMPLETION CODES:
: 156      0152 1
: 157          0153 1
: 158          0154 1 TRUE is returned if operation is successful. Otherwise, FALSE
: 159          0155 1 is returned.
: 160          0156 1
: 161          0157 1 SIDE EFFECTS:
: 162          0158 1
: 163          0159 1
: 164          0160 1
: 165          0161 1 --
: 166          0162 1
: 167          0163 2 BEGIN
: 168          0164 2
: 169          0165 2 MAP
: 170          0166 2     BUFDSC : REF DESCRIPTOR,
: 171          0167 2     ENTDSC : REF DESCRIPTOR,
: 172          0168 2     RESDSC : REF DESCRIPTOR;
: 173          0169 2 LOCAL
: 174          0170 2     SRCPTR : REF BBLOCK,           ! Pointer to source block
: 175          0171 2     STATUS;                  ! Routine status code
: 176          0172 2
: 177          0173 2     STATUS = TRUE;              ! Initialize return status
: 178          0174 2
: 179          0175 2
: 180          0176 2 ! Get the source block.
```

```
: 179      0177 2 !  
180      0178 2 ! IF NML$MATCHSRC (.RESDSC, .SNK, .SRC, .ENTDSC, SRCPTR)  
181      0179 2 ! THEN  
182      0180 2 ! BEGIN  
183      0181 2 !     CHSMOVE (.SRCPTR [SRC$W_LENGTH],  
184      0182 2 !             .SRCPTR,  
185      0183 2 !             NML$T_SRCBUFFER);  
186      0184 2 !     NML$REMSRC (.RESDSC, .SRCPTR);  
187      0185 2 !     SRCPTR = NML$T_SRCBUFFER;  
188      0186 2 !  
189      0187 2 ! END  
190      0188 2 ! ELSE  
191      0189 2 ! BEGIN  
192      0190 2 !     NML$BLDSRC (NML$Q_SRCBFDS, .SNK, .SRC, .ENTDSC);  
193      0191 2 !     SRCPTR = .NML$Q_SRCBFDS [DSC$A_POINTER];  
194      0192 2 !  
195      0193 2 !     END;  
196      0194 2 !  
197      0195 2 !     Add the events to the source block.  
198      0196 2 !  
199      0197 2 !     SELECTONEU .NML$GB_EVTMSKTYP OF  
200      0198 2 !     SET  
201      0199 2 !     [2]: ! All events in class  
202      0200 2 !         NML_MODCLS (.FCT, NML$Q_SRCBFDS, .SRCPTR, .CLASS, .SRC);  
203      0201 2 !     [3]: ! Known events  
204      0202 2 !         NML_MODKNO (.FCT, NML$Q_SRCBFDS, .SRCPTR, .SRC);  
205      0203 2 !     [OTHERWISE]: ! Add specified events to class  
206      0204 2 !  
207      0205 2 !         NML_MODFIL (.FCT,  
208      0206 2 !             FALSE,  
209      0207 2 !             NML$Q_SRCBFDS,  
210      0208 2 !             .SRCPTR,  
211      0209 2 !             .CLASS,  
212      0210 2 !             .MSKLEN,  
213      0211 2 !             .MSKPTR);  
214      0212 2 !  
215      0213 2 !     TES;  
216      0214 2 !  
217      0215 2 !  
218      0216 2 !  
219      0217 2 !  
220      0218 2 !  
221      0219 2 !  
222      0220 2 !  
223      0221 2 !     Add the source block to the data base entry.  
224      0222 2 !  
225      0223 2 !     IF NOT NML$ADDSRC (.BUFDSC, .RESDSC, .SRCPTR)  
226      0224 2 !     THEN  
227      0225 2 !         STATUS = FALSE;  
228      0226 2 !  
229      0227 2 !     Clean up the sink node filters.  
230      0228 2 !  
231      0229 2 !     NML$CLEANEVT (.SNK, .RESDSC);  
232      0230 2 !     NML$CLEANSRC (.BUFDSC, .SNK, .RESDSC);  
233      0231 2 !  
234      0232 2 !  
235      0233 2 !     RETURN .STATUS
```

: 236 0234 2
: 237 0235 1 END:

! End of NMLSADDFILTERS

```
.TITLE NMLSLOGOPS NML Logging data base operations module
.IDENT \V04-000\
.PSECT SPLITS,NOWRT,NOEXE,2

00000014 00000 P.AAA: .LONG 20
00000000 00004 .ADDRESS NMLST_EVTBUFFER
00000400 00008 P.AAB: .LONG 1024
00000000 0000C .ADDRESS NMLST_SRCBUFFER

.PSECT SOWNS,NOEXE,2

00000 NMLST_EVTBUFFER:
.BLKB 20
00014 NMLST_SRCBUFFER:
.BLKB 1024

NML$Q_EVTBFDESC= P.AAA
NML$Q_SRCBFDESC= P.AAB
.EXTRN NML$GB_EVTSRCTYP
.EXTRN NML$GQ_EVTSRCDSC
.EXTRN NML$GW_EVTCLASS
.EXTRN NML$GB_EVTMSKTYP
.EXTRN NML$GQ_EVTMSKDSC
.EXTRN NML$GW_EVTSNKADR
.EXTRN NML$GW_ACP_CHAN
.EXTRN NML$GL_LOGMASK, NML$GQ_ENTSTRDSC
.EXTRN NML$AB_QIOBUFFER
.EXTRN NML$GQ_QIOBFDSC
.EXTRN NML$AB_EXEBUFFER
.EXTRN NML$GL_EXEDATPTR
.EXTRN NML$GQ_EXEDATDSC
.EXTRN NML$GQ_EXEBFDSC
.EXTRN NML$AB_RCVBUFFER
.EXTRN NML$GQ_RCVbfdsc
.EXTRN NML$AB_SNDBUFFER
.EXTRN NML$GQ_SNDBFDSC
.EXTRN NML$GL_RCVDATLEN
.EXTRN NML$AB_CPTABLE, NML$AB_MSGBLOCK
.EXTRN NML$AB_ENTITY_ID
.EXTRN NML$AB_QUALIFIER_ID
.EXTRN NML$AB_ENTITYDATA
.EXTRN NML$AB_NML_NMV, NML$AB_PRMSEM
.EXTRN NML$AB_RECBUF, NML$AL_ENTINFTAB
.EXTRN NML$AL_PERMINFTAB
.EXTRN NML$AW_PRMDES, NML$GB_CMD_VER
.EXTRN NML$GB_ENTITY_CODE
.EXTRN NML$GB_ENTITY_FORMAT
.EXTRN NML$GL_QUALIFIER_PST
.EXTRN NML$GB_QUALIFIER_FORMAT
.EXTRN NML$GB_FUNCTION
.EXTRN NML$GB_INFO, NML$GB_OPTIONS
```

			.EXTRN NML\$GL_PRMCODE, NML\$GL_PRS_FLGS
			.EXTRN NML\$GL_NML_ENTITY
			.EXTRN NML\$GQ_NETNAMDSC
			.EXTRN NML\$GQ_RECBLFDSC
			.EXTRN NML\$GW_PRMDESCNT
			.EXTRN NML\$GK_EVENTS, NML\$AB_EVENTS
			.EXTRN NML\$ERROR_2
			.PSECT SCODE\$, NOWRT, 2
		03FC 00000	.ENTRY NMLSADDFILTERS, Save R2,R3,R4,R5,R6,R7,R8,- ; 0121
		59 00000000' EF 9E 00002	MOVAB NML\$T_SRCBUFFER, R9
		58 00000000' EF 9E 00009	MOVAB NML\$Q_SRCBLFDSC, R8
		5E 04 C2 00010	SUBL2 #4, SP
		57 01 D0 00013	MOVL #1, STATUS
		7E 10 AC 7D 00018	PUSHL SP
		OC AC DD 0001C	MOVL SRC, -(SP)
		56 24 AC DD 0001F	PUSHL SNK
		56 DD 00023	MOVL RESDSC, R6
	00000000V	EF 05 FB 00025	PUSHL R6
		50 E9 0002C	CALLS #5, NML\$MATCHSRC
69	00 BE 00 BE 28 0002F	BLBC R0, 1\$	
		6E DD 00035	MOVC3 @SRCPTR, @SRCPTR, NML\$T_SRCBUFFER
		56 DD 00037	SRCPTR
	00000000V	EF 02 FB 00039	PUSHL R6
		6E 69 9E 00040	CALLS #2, NML\$REMSRC
		14 11 00043	MOVAB NML\$T_SRCBUFFER, SRCPTR
	7E 10 AC 7D 00045	BRB 2\$	
	OC AC DD 00049	MOVL SRC, -(SP)	
	58 DD 0004C	PUSHL SNK	
	00000000V	EF 04 FB 0004E	PUSHL R8
		6E 04 A8 D0 00055	CALLS #4, NML\$BLDSRC
		50 00000000G EF 9A 00059	MOVL NML\$Q_SRCBLFDSC+4, SRCPTR
		02 50 91 00060	MOVZBL NML\$GB_EVTMSKTYPE, R0
		17 12 00063	CMPB R0, #2
		10 AC DD 00065	BNEQ 3\$
		18 AC DD 00068	PUSHL SRC
		08 AE DD 0006B	PUSHL CLASS
		58 DD 0006E	PUSHL SRCPTR
	00000000V	EF 04 AC DD 00070	PUSHL R8
		05 FB 00073	CALLS #5, NML_MODCLS
		31 11 0007A	BRB 5\$
	03 50 91 0007C	CMPB R0, #3	
		14 12 0007F	BNEQ 4\$
		10 AC DD 00081	PUSHL SRC
		04 AE DD 00084	PUSHL SRCPTR
		58 DD 00087	PUSHL R8
	00000000V	EF 04 AC DD 00089	PUSHL FCT
		04 FB 0008C	CALLS #4, NML_MODKNO
		18 11 00093	BRB 5\$
	7E 1C AC 7D 00095	MOVQ MSKLEN, -(SP)	
	18 OC AC DD 00099	PUSHL CLASS	
		AE DD 0009C	PUSHL SRCPTR
		58 DD 0009F	PUSHL R8
		7E D4 000A1	CLRL -(SP)

NML\$LOGOPS
V04-000

NML Logging data base operations module
NMLSADDFILTERS Add event filters for sink node

M 8
16-Sep-1984 00:19:25
14-Sep-1984 12:50:11

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[NML.SRC]NMLLOGOPS.B32;1

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00000000V	EF	04	AC DD 000A3	PUSHL	FCT	
		07	FB 000A6	CALLS	#7, NML_MODFIL	
		6E	DD 000AD	PUSHL	SRCPTR	0224
		56	DD 000AF	PUSHL	R6	
00000000V	EF	08	AC DD 000B1	PUSHL	BUFDSC	
	02	03	FB 000B4	CALLS	#3, NMLSADDSRC	
		50	E8 000BB	BLBS	R0, 6S	0226
		57	D4 000BE	CLRL	STATUS	
		56	DD 000C0	6S:	PUSHL	0230
00000000V	EF	0C	AC DD 000C2	PUSHL	R6	
		02	FB 000C5	CALLS	#2, NML\$CLEANEVT	
00000000V	EF	08	56 DD 000CC	PUSHL	R6	0231
	7E	03	FB 000D2	MOVQ	BUFDSC, -(SP)	
	50	57	DD 000D9	CALLS	#3, NML\$CLEANSRC	
		04	000DC	MOVL	STATUS, R0	0233
				RET		0235

; Routine Size: 221 bytes, Routine Base: \$CODE\$ + 0000

0236 1 %SBTTL 'NML_MODFIL Modify event filters'
0237 1 ROUTINE NML_MODFIL (FCT, ZER, BUFDSC, SRCPTR, CLASS, MSKLEN, MSKPTR) =
0238 1
0239 1 ++
0240 1 FUNCTIONAL DESCRIPTION:
0241 1
0242 1 This routine adds event filters to the data base entry for a sink
0243 1 node.
0244 1
0245 1 FORMAL PARAMETERS:
0246 1
0247 1 FCT Function code. (0=CLEAR/PURGE, 1=SET/DEFINE).
0248 1 ZER Zero mask flag. (TRUE=yes, FALSE=no).
0249 1 BUFDSC Descriptor of buffer to contain modified data base
0250 1 entry.
0251 1 SRCPTR Pointer to source block in buffer.
0252 1 CLASS Event class code.
0253 1 MSKLEN Length of filter mask.
0254 1 MSKPTR Address of filter mask.
0255 1
0256 1 IMPLICIT INPUTS:
0257 1
0258 1 NONE
0259 1
0260 1 IMPLICIT OUTPUTS:
0261 1
0262 1 NONE
0263 1
0264 1 ROUTINE VALUE:
0265 1 COMPLETION CODES:
0266 1
0267 1 TRUE is returned if operation is successful. Otherwise, FALSE
0268 1 is returned.
0269 1
0270 1 SIDE EFFECTS:
0271 1
0272 1 NONE
0273 1
0274 1
0275 1 --
0276 2 BEGIN
0277 2
0278 2 MAP
0279 2 BUFDSC : REF DESCRIPTOR,
0280 2 SRCPTR : REF BBLOCK;
0281 2
0282 2 LOCAL
0283 2 EVT PTR,
0284 2 STATUS; ! Pointer to event block
0285 2 ! Routine status code
0286 2 STATUS = TRUE; ! Initialize return status
0287 2
0288 2 Get the event block.
0289 2
0290 2 IF NMLSMATCHEVT (.SRCPTR,
0291 2 .CLASS
0292 2 .EVT PTR)

```

: 296    0293 2 THEN
: 297    0294 2 BEGIN
: 298    0295
: 299    0296     NML$MODEVT (.FCT, .ZER, .EVTPTR, .MSKLEN, .MSKPTR);
: 300    0297
: 301    0298 END
: 302    0299 ELSE
: 303    0300 BEGIN
: 304    0301
: 305    0302     NML$BLDEVT (.FCT, .CLASS, .MSKLEN, .MSKPTR, NMLST_EVTBUFFER);
: 306    0303     EVT PTR = NMLST_EVTBUFFER;
: 307    0304
: 308    0305 ! Add the event block to the source block.
: 309    0306
: 310    0307 IF NOT NML$ADDEVT (.BUFDSC, .SRCPTR, .EVTPTR)
: 311    0308 THEN
: 312    0309     STATUS = FALSE;
: 313    0310
: 314    0311 END;
: 315    0312
: 316    0313 RETURN .STATUS
: 317    0314
: 318    0315 ! End of NML_MODFIL

```

000C 00000 NML_MODFIL:						
				.WORD	Save R2,R3	0237
53	00000000'	EF	9E 00002	MOVAB	NMLST_EVTBUFFER, R3	
5E		04	C2 00009	SUBL2	#4, SP	0286
52		01	D0 0000C	MOVL	#1, STATUS	0290
		5E	DD 0000F	PUSHL	SP	
00000000V	7E	10	AC 7D 00011	MOVQ	SRCPTR, -(SP)	
	EF	03	FB 00015	CALLS	#3, NML\$MATCHEV	
	14	50	E9 0001C	BLBC	RO, 1\$	0296
	7E	18	AC 7D 0001F	MOVQ	MSKLEN, -(SP)	
		08	DD 00023	PUSHL	EVT PTR	
	7E	04	AC 7D 00026	MOVQ	FCT, -(SP)	
00000000V	EF	05	FB 0002A	CALLS	#5, NML\$MODEVT	
		28	11 00031	BRB	2\$	0290
		53	DD 00033	PUSHL	R3	0302
	7E	18	AC 7D 00035	MOVQ	MSKLEN, -(SP)	
		14	AC DD 00039	PUSHL	CLASS	
		04	AC DD 0003C	PUSHL	FCT	
00000000V	EF	05	FB 0003F	CALLS	#5, NML\$BLDEVT	
	6E	63	9E 00046	MOVAB	NMLST_EVTBUFFER, EVT PTR	0303
		6E	DD 00049	PUSHL	EVT PTR	0307
00000000V	7E	0C	AC 7D 0004B	MOVQ	BUFDSC, -(SP)	
	EF	03	FB 0004F	CALLS	#3, NML\$ADDEVT	
	02	50	E8 00056	BLBS	RO, 2\$	0309
		52	D4 00059	CLRL	STATUS	0313
	50	52	DO 0005B	MOVL	STATUS, RO	0315
		04	0005E	RET		

; Routine Size: 95 bytes, Routine Base: \$CODES + 000D

NML\$LOGOPS
V04-000

NML Logging data base operations module
NML_MODFIL Modify event filters

{ 9
16-Sep-1984 00:19:25 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:50:11 [NML.SRC]NMLLOGOPS.B32;1

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NML
V04

```

320 0316 1 XSBTTL 'NML_MODCLS Modify class filters'
321 0317 1 ROUTINE NML_MODCLS (FCT, BUFDSC, SRCPTR, CLASS, SRC) =
322 0318 1
323 0319 1 ++
324 0320 1 FUNCTIONAL DESCRIPTION:
325 0321 1
326 0322 1 This routine adds event filters to the data base entry for a single
327 0323 1 node.
328 0324 1
329 0325 1 FORMAL PARAMETERS:
330 0326 1
331 0327 1 FCT Function code. (0=CLEAR/PURGE, 1=SET/DEFINE)
332 0328 1 BUFDSC Descriptor of buffer to contain modified data base
333 0329 1 entry.
334 0330 1 SRCPTR Pointer to source block in buffer.
335 0331 1 CLASS Event class code.
336 0332 1 SRC Source type code.
337 0333 1
338 0334 1 IMPLICIT INPUTS:
339 0335 1
340 0336 1 NONE
341 0337 1
342 0338 1 IMPLICIT OUTPUTS:
343 0339 1
344 0340 1 NONE
345 0341 1
346 0342 1 ROUTINE VALUE:
347 0343 1 COMPLETION CODES:
348 0344 1
349 0345 1 TRUE is returned if operation is successful. Otherwise, FALSE
350 0346 1 is returned.
351 0347 1
352 0348 1 SIDE EFFECTS:
353 0349 1
354 0350 1 NONE
355 0351 1
356 0352 1
357 0353 1
358 0354 2 BEGIN
359 0355 2
360 0356 2
361 0357 2
362 0358 2
363 0359 2
364 0360 2
365 0361 2
366 0362 2
367 0363 2
368 0364 2
369 0365 2
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999 0995 2
1000 0996 2

```

```

377      0373 3   IF .NML$AB_EVENTS [.I, ETBSW_CLASS] EQLU .CLASS
378      0374 3   THEN
379      0375 4   BEGIN
380      0376 4
381      0377 4   SELECTONEU .SRC OF
382      0378 4   SET
383      0379 4
384      0380 4   [NMASC_ENT_NOD]: ! Node
385      0381 4   MSR = .NML$AB_EVENTS [.I, ETBSA_NODE];
386      0382 4
387      0383 4   [NMASC_ENT_CIR]: ! Circuit
388      0384 4   MSR = .NML$AB_EVENTS [.I, ETBSA_CIRCUIT];
389      0385 4
390      0386 4   [NMASC_ENT_LIN]: ! Line
391      0387 4   MSR = .NML$AB_EVENTS [.I, ETBSA_LINE];
392      0388 4
393      0389 4   [NMASC_ENT_MOD]: ! Module
394      0390 4   MSR = .NML$AB_EVENTS [.I, ETBSA_MODULE];
395      0391 4
396      0392 4   [OTHERWISE]: ! Must be global
397      0393 4   MSR = .NML$AB_EVENTS [.I, ETBSA_GLOBAL];
398      0394 4
399      0395 4   TES;
400      0396 4
401      0397 4   EXITLOOP;
402      0398 4
403      0399 3
404      0400 2
405      0401 2
406      0402 2
407      0403 2
408      0404 2
409      0405 2
410      0406 2
411      0407 2
412      0408 2
413      0409 2
414      0410 2
415      0411 2
416      0412 1
      STATUS = NML_MODFIL (.FCT,
                           TRUE,
                           .BUFDESC,
                           .SRCPTR,
                           .CLASS,
                           EVTSS_LOGMSK,
                           .MSK);

      RETURN .STATUS
      END;                                ! End of NML_MODCLS

```

.PSECT SPLIT\$,NOWRT,NOEXE,2

00000000 FFFFFFFF 00010 P.AAC: .LONG -1, 0

.PSECT SCODE\$,NOWRT,2

001C 00000 NML_MODCLS:

56 00000000G	EF 9E 00002	.WORD	Save R2,R3,R4	: 0317
53 00000000	EF 9E 00009	MOVAB	NML\$AB_EVENTS, R4	: 0365
50 04	AC E9 00010	MOVAB	P.AAC, MSK	: 0367
50	01 CE 00014	BLBC	FCT, 88	: 0373
		MNEG	#1, I	

		51	50	63	11	00017		BRB	7\$		
				16	C5	00019	18:	MULL3	#22 I, R1		
		10	AC	6441	9F	0001D		PUSHAB	NMLSAB_EVENTS[R1]		
				9E	B1	00020		CMPW	a(SP)+, CLASS		
				36	12	00024		BNEQ	7\$		
		52	14	AC	D0	00026		MOVL	SRC, R2		0377
				06	12	0002A		BNEQ	2\$		0380
				06 A441	9F	0002C		PUSHAB	NMLSAB_EVENTS+6[R1]		0381
				25	11	00030		BRB	6\$		
		03		52	D1	00032	28:	CMPL	R2, #3		0383
				06	12	00035		BNEQ	3\$		
				0A A441	9F	00037		PUSHAB	NMLSAB_EVENTS+10[R1]		0384
				1A	11	0003B		BRB	6\$		
		01		52	D1	0003D	38:	CMPL	R2, #1		0386
				06	12	00040		BNEQ	4\$		
				0E A441	9F	00042		PUSHAB	NMLSAB_EVENTS+14[R1]		0387
				0F	11	00046		BRB	6\$		
		04		52	D1	00048	48:	CMPL	R2, #4		0389
				06	12	0004B		BNEQ	5\$		
				12 A441	9F	0004D		PUSHAB	NMLSAB_EVENTS+18[R1]		0390
				04	11	00051		BRB	6\$		
				02 A441	9F	00053	58:	PUSHAB	NMLSAB_EVENTS+2[R1]		0393
		53		9E	D0	00057	68:	MOVL	a(SP)+, MSK		
				08	11	0005A		BRB	8\$		0375
		B5		50 00000000G	8F	F3	0005C	AOBLEQ	#NMLSGK_EVENTS-1, I, 1\$		0370
					53	DD	00064	PUSHL	MSK		0408
					08	DD	00066	PUSHL	#8		0402
				7E	10	AC	3C	MOVZWL	CLASS, -(SP)		0406
				7E	08	AC	7D	MOVQ	BUFDSC, -(SP)		0404
					01	DD	0006C	PUSHL	#1		0402
					04	AC	DD	PUSHL	FCT		
		FF27	CF		07	FB	00075	CALLS	#7, NML_MODFIL		
					04	0007A		RET			0412

; Routine Size: 123 bytes. Routine Base: \$CODES + 013C

```
418      0413 1 XSBTTL 'NML_MODKNO  Modify known filters'  
419      0414 1 ROUTINE NML_MODKNO (FCT, BUFDSC, SRCPTR, SRC) =  
420      0415 1 !++  
421      0416 1 FUNCTIONAL DESCRIPTION:  
422      0417 1 This routine adds event filters to the data base entry for a sink  
423      0418 1 node.  
424      0419 1 FORMAL PARAMETERS:  
425      0420 1  
426      0421 1  
427      0422 1  
428      0423 1  
429      0424 1 FCT          Function code. (0=CLEAR/PURGE, 1=SET/DEFINE)  
430      0425 1 BUFDSC       Descriptor of buffer to contain modified data base  
431      0426 1 entry.  
432      0427 1 SRCPTR       Pointer to source block in buffer.  
433      0428 1 SRC          Source type code.  
434      0429 1  
435      0430 1 IMPLICIT INPUTS:  
436      0431 1  
437      0432 1  
438      0433 1  
439      0434 1  
440      0435 1  
441      0436 1  
442      0437 1  
443      0438 1  
444      0439 1  
445      0440 1  
446      0441 1  
447      0442 1  
448      0443 1  
449      0444 1  
450      0445 1  
451      0446 1  
452      0447 1  
453      0448 1  
454      0449 1  
455      0450 2  
456      0451 2  
457      0452 2  
458      0453 2  
459      0454 2  
460      0455 2  
461      0456 2  
462      0457 2  
463      0458 2  
464      0459 2  
465      0460 2  
466      0461 2  
467      0462 2  
468      0463 2  
469      0464 2  
470      0465 2  
471      0466 2  
472      0467 2  
473      0468 2  
474      0469 2  
        !+  
        BEGIN  
        MAP  
          BUFDSC : REF DESCRIPTOR,  
          SRCPTR : REF BBLOCK;  
        LOCAL  
          CLASS : WORD,  
          EVTPTR : REF BBLOCK,  
          MSK,  
          STATUS;           ! Routine status code  
        STATUS = FALSE;  
        INCR I FROM 0 TO NML$GK_EVENTS - 1 DO  
          BEGIN  
            CLASS = .NML$AB_EVENTS [.I, ETBSW_CLASS];  
            SELECTONEU .SRC OF
```

```
475      0470 3      SET
476      0471          ! Node
477      0472 [ENMASC_ENT_NOD]: MSR = .NMLSAB_EVENTS [.I, ETBSA_NODE];
478      0473          ! Circuit
479      0474 [ENMASC_ENT_CIR]: MSR = .NMLSAB_EVENTS [.I, ETBSA_CIRCUIT];
480      0475          ! Line
481      0476 [ENMASC_ENT_LIN]: MSR = .NMLSAB_EVENTS [.I, ETBSA_LINE];
482      0477          ! Line
483      0478 [ENMASC_ENT_MOD]: MSR = .NMLSAB_EVENTS [.I, ETBSA_MODULE];
484      0479          ! Must be global
485      0480 [OTHERWISE]: MSK = .NMLSAB_EVENTS [.I, ETBSA_GLOBAL];
486      0481          ! Must be global
487      0482 TES:
488      0483
489      0484 STATUS = NML_MODFIL (.FCT,
490      0485          TRUE,
491      0486          .BUFDSC,
492      0487          .SRCPTR,
493      0488          .CLASS,
494      0489          EVTSS_LOGMSK,
495      0490          .MSK);
496      0491
497      0492 IF NOT .STATUS
498      0493 THEN EXITLOOP;
499      0494 END;
500      0495
501      0496
502      0497
503      0498
504      0499
505      0500
506      0501
507      0502 If the function is clear and everything is alright up to this point then
508      0503 go through all event classes that are present in the source block and clear
509      0504 out all the filters. This covers the case where filters are present for
510      0505 an unknown class.
511      0506
512      0507 IF .STATUS
513      0508 AND NOT .FCT
514      0509 THEN BEGIN
515      0510
516      0511
517      0512 EVTPTR = 0;
518      0513 WHILE NMLSGETNXTEVT (.SRCPTR, EVTPTR) DO
519      0514 BEGIN
520      0515
521      0516 CLASS = .EVTPTR [EVTSW_CLASS];
522      0517 NMLSMODEVT (.FCT, FALSE, .EVTPTR, EVTSS_LOGMSK, UPLIT (-1, -1));
523      0518
524      0519
525      0520
526      0521
527      0522
528      0523
529      0524
530      0525 END;
      RETURN .STATUS
END;                                ! End of NML_MODKNO
```

				.PSECT	SPLITS,NOWRT,NOEXE,2
	FFFFFFFFFF	FFFFFFFFFF	00018 P.AAD:	.LONG	-1, -1
				.PSECT	\$CODE\$,NOWRT,2
			007C 00000 NML_MODKNO:		
50	56 00000000G	EF 9E 00002		.WORD	Save R2, R3, R4, R5, R6
		54 D4 00009		MOVAB	NMLSAB_EVENTS, R6
	52	01 CE 00008		CLRL	STATUS
		59 10 0000E		MNEGL	#1, I
	52	16 C5 00010	15:	BSBB	7S
		6640 9F 00014		MULL3	#22, I, R0
	55	9E B0 00017		PUSHAB	NMLSAB_EVENTS[R0]
	51	10 AC D0 0001A		MOVW	@(SP)+ CLASS
		06 12 0001E		MOVL	SRC, R1
		06 A640 9F 00020		BNEQ	2S
		25 11 00024		PUSHAB	NMLSAB_EVENTS+6[R0]
	03	51 D1 00026	25:	BRB	6S
		06 12 00029		[CPL	R1, #3
		0A A640 9F 0002B		BNEQ	3S
		1A 11 0002F		PUSHAB	NMLSAB_EVENTS+10[R0]
	01	51 D1 00031	35:	BRB	6S
		06 12 00034		[CPL	R1, #1
		0E A640 9F 00036		BNEQ	4S
		0F 11 0003A		PUSHAB	NMLSAB_EVENTS+14[R0]
	04	51 D1 0003C	45:	BRB	6S
		06 12 0003F		[CPL	R1, #4
		12 A640 9F 00041		BNEQ	5S
		04 11 00045		PUSHAB	NMLSAB_EVENTS+18[R0]
	53	02 A640 9F 00047	55:	BRB	6S
		9E D0 0004B	65:	PUSHAB	NMLSAB_EVENTS+2[R0]
		53 DD 0004E		MOVL	@(SP)+, MSK
		08 DD 00050		PUSHL	MSK
	7E	55 3C 00052		PUSHL	#8
	7E	08 AC 7D 00055		MOVZWL	CLASS, -(SP)
		01 DD 00059		MOVQ	BUFDSC, -(SP)
		04 AC DD 0005B		PUSHL	#1
FEC3	CF	07 FB 0005E		PUSHL	FCT
	54	50 D0 00063		CALLS	#7, NML_MODFIL
	3D	54 E9 00066		MOVL	R0, STATUS
	52 00000000G	8F F3 00069	75:	BLBC	STATUS, 9S
	32	54 E9 00071		AOBLEQ	#NMLSCK_EVENTS-1, I,
	2E	04 AC E8 00074		BLBC	STATUS, 9S
		6E D4 00078		BLBS	FCT, 9S
		5E DD 0007A	85:	CLRL	EVTPTR
		0C AC DD 0007C		PUSHL	5P
		02 FB 0007F		PUSHL	SRCPTR
9F	1D	50 E9 00086		CALLS	#2, NMLSGETNXT_EVT
	55 00.	BE B0 00089		BLBC	R0, 9S
	00000000.	FF 9F 0008D		MOVW	@EVTPTR, CLASS
		08 DD 00093		PUSHAB	P.AAD
				PUSHL	#8

NML\$LOGOPS
V04-000

NML Logging data base operations module
NML_MODRNO Modify known filters

J 9
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	08	AE	DD	00095	PUSHL	EVTPTR
		7E	D4	00098	CLRL	-(SP)
00000000V	EF	04	AC	DD 0009A	PUSHL	FCT
			05	FB 0009D	CALLS	#5, NML\$MODEVT
			D4	11 000A4	BRB	8S
	50		54	DD 000A6 98:	MOVL	STATUS, R0
			04	000A9	RET	

: Routine Size: 170 bytes, Routine Base: \$CODE\$ + 01B7

0513
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0525

NP
VC

532 0526 1 %SBTTL 'NML\$GETSPCFILTERS Get event filters'
533 0527 1 GLOBAL ROUTINE NML\$GETSPCFILTERS
534 0528 1 (DATDSC, SNK, SRC, ENTDSC, CLASS, MSKPTR, RESLEN) =
535 0529 1
536 0530 1 ++
537 0531 1 FUNCTIONAL DESCRIPTION:
538 0532 1 This routine gets event filters for the specified source and class.
539 0533 1
540 0534 1 FORMAL PARAMETERS:
541 0535 1
542 0536 1
543 0537 1 DATDSC Descriptor of current data base entry.
544 0538 1 SNK Logging sink type code.
545 0539 1 SRC Event source type code.
546 0540 1 ENTDSC Event source id string descriptor.
547 0541 1 CLASS Event class code.
548 0542 1 MSKPTR Address of filter mask quadword.
549 0543 1 RESLEN Address of longword to contain byte count of
550 0544 1 resulting mask.
551 0545 1
552 0546 1 IMPLICIT INPUTS:
553 0547 1
554 0548 1
555 0549 1
556 0550 1 IMPLICIT OUTPUTS:
557 0551 1
558 0552 1
559 0553 1
560 0554 1 ROUTINE VALUE:
561 0555 1 COMPLETION CODES:
562 0556 1
563 0557 1 TRUE is returned if operation is successful. Otherwise, FALSE
564 0558 1 is returned.
565 0559 1
566 0560 1 SIDE EFFECTS:
567 0561 1
568 0562 1
569 0563 1
570 0564 1 --
571 0565 1
572 0566 2 BEGIN
573 0567 2
574 0568 2 MAP
575 0569 2 DATDSC : REF DESCRIPTOR,
576 0570 2 ENTDSC : REF DESCRIPTOR,
577 0571 2 MSKPTR : REF BITVECTOR;
578 0572 2
579 0573 2 LOCAL
580 0574 2 EVTPTR : REF BBLOCK, | Pointer to event block
581 0575 2 FILPTR : REF BITVECTOR, | Pointer to event filter mask
582 0576 2 LOGPTR : REF BITVECTOR, | Pointer to event log mask
583 0577 2 SRCPTR, | Pointer to source block
584 0578 2 ZERCNT: | Trailing zero byte count
585 0579 2
586 0580 2
587 0581 2 | Get the source block.
588 0582 2

```
589 0583 2 IF NOT NML$MATCHSRC (.DATDSC, .SNK, .SRC, .ENTDSC, SRCPTR)  
590 0584 THEN  
591 0585 RETURN FALSE;  
592 0586  
593 0587  
594 0588  
595 0589  
596 0590 IF NOT NML$MATCHEVT (.SRCPTR, .CLASS, EVT PTR)  
597 0591 THEN  
598 0592 RETURN FALSE;  
599 0593  
600 0594  
601 0595  
602 0596 Get combined specific and global filters.  
603 0597 IF NOT NML$GETCOMFILTERS (.DATDSC, .SNK, .CLASS, .MSKPTR, .RESLEN)  
604 0598 THEN  
605 0599 RETURN FALSE;  
606 0600  
607 0601 1 RETURN TRUE  
END; ! End of NML$GETSPCFILTERS
```

; Routine Size: 72 bytes, Routine Base: SCODES + 0261

0609
0610
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0602 1 %SBTTL 'NML\$GETCOMFILTERS Get event filters'
0603 1 GLOBAL ROUTINE NML\$GETCOMFILTERS (DATDSC, EVTPT, SNK, MSKPTR, RESLEN) =
0604 1 ++
0605 1 FUNCTIONAL DESCRIPTION:
0606 1 This routine gets event filters from the specified event block
0607 1 and combines them with the global filters for the class. The
0608 1 resulting mask is the complete event mask for the class and source.
0609 1
0610 1 FORMAL PARAMETERS:
0611 1
0612 1 DATDSC Descriptor of current data base entry.
0613 1 EVTPT Pointer to event block.
0614 1 SNK Event sink type code.
0615 1 MSKPTR Address of filter mask quadword.
0616 1 RESLEN Address of longword to contain byte count of
0617 1 resulting mask.
0618 1
0619 1
0620 1
0621 1 IMPLICIT INPUTS:
0622 1
0623 1
0624 1
0625 1
0626 1
0627 1
0628 1
0629 1
0630 1
0631 1
0632 1
0633 1
0634 1
0635 1
0636 1
0637 1
0638 1
0639 1
0640 1
0641 2 BEGIN
0642 2
0643 2 MAP
0644 2 DATDSC : REF DESCRIPTOR,
0645 2 EVTPT : REF BBLOCK,
0646 2 MSKPTR : REF BITVECTOR;
0647 2 ! Pointer to event block
0648 2 LOCAL
0649 2 CLASS,
0650 2 FILPTR : REF BITVECTOR,
0651 2 LOGPTR : REF BITVECTOR,
0652 2 ZERCNT;
0653 2 ! Event class
0654 2 ! Pointer to event filter mask
0655 2 ! Pointer to event log mask
0656 2 ! Trailing zero byte count
0657 2
0658 2 ! Get global filter mask for this class.
0659 2
0660 2
0661 2
0662 2
0663 2
0664 2
0665 2 CLASS = .EVTPT [EVTSW CLASS];
0666 2 NML\$GETGBLFILTERS (.DATDSC, .SNK, .CLASS, .MSKPTR);

NML\$LOGOPS
V04-000

NML Logging data base operations module
NML\$GETFILTERS Get event filters

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63	01	52	50	CA	00041	BICL2	R0, R2	
	D8	51	52	F0	00044	INSV	R2, I, #1, \$ (R3)	0665
		50	3F	F3	00049	AOBLEQ	#63, I, 1\$, (R3)	0677
			07	7D	0004D	MOVQ	#7, I	0680
			6043	95	00050	28:	TSTB {I\$[R3]}	0682
			05	12	00053	BNEQ	38	0677
14	BC	F6	51	D6	00055	INCL	ZERCNT	0690
		08	50	F4	00057	SOBGEQ	I, 28	0692
		50	01	C3	0005A	38:	SUBL3 ZERCNT, #8, @RESLEN	0694
			00	D0	0005F	MOVL	#1, R0	
			04	00062		RET		

: Routine Size: 99 bytes, Routine Base: \$CODES + 02A9

NML
V04

: 1

703 0695 1 XSBTTL 'NML\$GETGBLFILTERS Get global filters for sink and class'
704 0696 1 GLOBAL ROUTINE NML\$GETGBLFILTERS (DATDSC, SNK, CLASS, MSKPTR) =
705 0697 1
706 0698 1 ++
707 0699 1 FUNCTIONAL DESCRIPTION:
708 0700 1
709 0701 1 This routine returns the global filters for the specified
710 0702 1 sink type and class.
711 0703 1
712 0704 1 FORMAL PARAMETERS:
713 0705 1
714 0706 1 DATDSC Descriptor of source block buffer.
715 0707 1 SNK Logging sink type code.
716 0708 1 CLASS Event class code.
717 0709 1 MSKPTR Pointer to quadword to contain global filter mask.
718 0710 1
719 0711 1 IMPLICIT INPUTS:
720 0712 1 NONE
721 0713 1
722 0714 1 IMPLICIT OUTPUTS:
723 0715 1 NONE
724 0716 1
725 0717 1
726 0718 1
727 0719 1 ROUTINE VALUE:
728 0720 1 COMPLETION CODES:
729 0721 1
730 0722 1 TRUE is returned if global filters are found, FALSE is returned
731 0723 1 if no global filters are found. If no global filters are found
732 0724 1 the resulting filter mask will be zeroed.
733 0725 1
734 0726 1 SIDE EFFECTS:
735 0727 1
736 0728 1 NONE
737 0729 1
738 0730 1 --
739 0731 1 BEGIN
740 0732 2 LOCAL
741 0733 2 EVT PTR : REF BBLOCK,
742 0734 2 SRC PTR : REF BBLOCK,
743 0735 2 STATUS; : Event block pointer
744 0736 2 : Source block pointer
745 0737 2 : Routine status
746 0738 2
747 0739 2 Zero the filter mask.
748 0740 2
749 0741 2 CHSFILL (0, EVTSS_LOGMSK, .MSKPTR);
750 0742 2
751 0743 2 If global filters are found then just return.
752 0744 2
753 0745 2 IF NOT NMLSMATCHSRC (.DATDSC,
754 0746 2 .SNK,
755 0747 2 NMASC_ENT_KNO,
756 0748 2 UPLIT(0,-0),
757 0749 2 SRC PTR)
758 0750 2 THEN
759 0751 2 RETURN FALSE;

```

760 0752 2
761 0753 2
762 0754 2 | If global filters are found for the specified class then move them
763 0755 2 | into the result mask.
764 0756 2
765 0757 2 | IF NMLSMATCHEVT (.SRCPTR,
766 0758 2 |     CLASS
767 0759 2 |     EVTPTRS)
768 0760 2 | THEN
769 0761 2 | BEGIN
770 0762 2
771 0763 2 | CH$MOVE (EVT$ LOGMSK,
772 0764 2 |     EVTPTR [EVTSQ_LOGMSK],
773 0765 2 |     MSKPTR);
774 0766 2 | STATUS = TRUE;
775 0767 2
776 0768 2
777 0769 2 | ELSE
778 0770 2 | STATUS = FALSE;
779 0771 2
780 0772 2 | RETURN .STATUS
781 0773 2
782 0774 1 | END;

                                         ! End of NML$GETGBLFILTERS

```

.PSECT \$PLITS,NOWRT,NOEXE,2

00000000 00000000 00020 P.AAE: .LONG 0, 0

.PSECT \$CODE\$,NOWRT,2

08 00 5E 003C 00000 6E 10 08 C2 00002 00 2C 00005 BC 0000A 00000000' 5E DD 0000C 00000000' EF 9F 0000E 7E 04 01 CE 00014 00000000V 7E 04 AC 7D 00017 EF 21 05 FB 0001B 00000000V 21 50 F9 00022 04 04 AE 9F 00025 00000000V 0C 04 AC DD 00028 EF 08 08 AE DD 0002B 00000000V 03 08 03 FB 0002E 0E 04 50 E9 00035 00000000V 04 04 AE D0 00038 50 A0 08 28 0003C 50 50 01 D0 00042 04 04 04 00045 50 D4 04 00046 18: 04 00048	.ENTRY NML\$GETGBLFILTERS, Save R2,R3,R4,R5 SUBL2 #8, SP MOV5 #0, (SP), #0, #8, @MSKPTR PUSHL SP PUSHAB P.AAE MNEGL #1, -(SP) MOVQ DATA, -(SP) CALLS #5, NML\$MATCHSRC BLBC R0, 1\$ PUSHAB EVTPTR PUSHL CLASS PUSHL SRCPTR CALLS #3, NML\$MATCHEVT BLBC R0, 1\$ MOVL EVTPTR, R0 MOV3 #8, 4(R0), @MSKPTR MOVL #1, STATUS RET CLRL R0 RET
10 BC 04	04

; Routine Size: 73 bytes, Routine Base: \$CODE\$ + 030C

NML\$LOGOPS
V04-000

NML Logging data base operations module
NML\$GETGBLFILTERS Get global filters for sink

E 10

16-Sep-1984 00:19:25

14-Sep-1984 12:50:11

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[NML.SRC]NMLLOGOPS.B32;1

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NM
VO

```
: 784 0775 1 %SBTTL 'NML$CLEANEVT [Clean event masks'  
: 785 0776 1 GLOBAL ROUTINE NML$CLEANEVT (SNK, BLKDSC) : NOVALUE =  
: 786 0777 1  
: 787 0778 1 ++  
: 788 0779 1 | FUNCTIONAL DESCRIPTION:  
: 789 0780 1 | This routine runs through all sources for the specified sink type  
: 790 0781 1 | and deletes all event filters that match the global filters.  
: 791 0782 1  
: 792 0783 1  
: 793 0784 1 FORMAL PARAMETERS:  
: 794 0785 1  
: 795 0786 1 SNK Logging sink type code.  
: 796 0787 1 BLKDSC Descriptor of all source block data.  
: 797 0788 1  
: 798 0789 1 IMPLICIT INPUTS:  
: 799 0790 1  
: 800 0791 1 NONE  
: 801 0792 1  
: 802 0793 1 IMPLICIT OUTPUTS:  
: 803 0794 1  
: 804 0795 1 NONE  
: 805 0796 1  
: 806 0797 1 ROUTINE VALUE:  
: 807 0798 1 COMPLETION CODES:  
: 808 0799 1  
: 809 0800 1 NONE  
: 810 0801 1  
: 811 0802 1 SIDE EFFECTS:  
: 812 0803 1  
: 813 0804 1 NONE  
: 814 0805 1  
: 815 0806 1 --  
: 816 0807 1  
: 817 0808 2 BEGIN  
: 818 0809 2  
: 819 0810 2 LOCAL  
: 820 0811 2 EVT PTR : REF BBLOCK,  
: 821 0812 2 FILMSK : REF BITVECTOR,  
: 822 0813 2 GBLEVT : REF BBLOCK,  
: 823 0814 2 GBLMSK : REF BITVECTOR,  
: 824 0815 2 LOGMSK : REF BITVECTOR,  
: 825 0816 2 GBLSRC : REF BBLOCK,  
: 826 0817 2 SRCPTR : REF BBLOCK,  
: 827 0818 2 STATUS;  
: 828 0819 2  
: 829 0820 2 | If there are no global filters then just clean up the filter masks.  
: 830 0821 2  
: 831 0822 2 IF NML$MATCHSRC (.BLKDSC, .SNK, NMASC_ENT_KNO, 0, GBLSRC)  
: 832 0823 2 THEN  
: 833 0824 2 BEGIN  
: 834 0825 3 | Make sure the filter mask is zeroed for the global filters.  
: 835 0826 3  
: 836 0827 3 GBLEVT = 0;  
: 837 0828 3 WHILE NML$GETNXT_EVT (.GBLSRC, GBLEVT) DO  
: 838 0829 3 BEGIN  
: 839 0830 4  
: 840 0831 4
```

```
; 841      0832 4      GBLMSK = GBLEVT [EVT$Q_FILTERMSK];  
; 842      0833 4      INCR I FROM 0 TO (EVT$S_FILTERMSK * 8) - 1 DO  
; 843      0834 4      BEGIN  
; 844      0835 5      GBLMSK [.I] = 0;  
; 845      0836 5      END;  
; 846      0837 5      END;  
; 847      0838 5      END;  
; 848      0839 4      END;  
; 849      0840 3      END;  
; 850      0841 2      ELSE  
; 851      0842 2      GBLSRC = 0;  
; 852      0843 2      | For every source clean up all event masks.  
; 853      0844 2      |  
; 854      0845 2      SRCPTR = 0;  
; 855      0846 2      WHILE NML$GETNXTSNK (.BLKDSC, .SNK, SRCPTR) DO  
; 856      0847 2      BEGIN  
; 857      0848 2      IF .SRCPTR [SRC$B_SRCTYPE]<0,8,1> NEQ NMASC_ENT_KNO  
; 858      0849 2      THEN  
; 859      0850 3      BEGIN  
; 860      0851 3      | For every event mask get rid of everything that matches the global  
; 861      0852 4      filters.  
; 862      0853 4      |  
; 863      0854 4      EVTPTR = 0;  
; 864      0855 4      WHILE NML$GETNXT_EVT (.SRCPTR, EVTPTR) DO  
; 865      0856 4      BEGIN  
; 866      0857 4      LOGMSK = EVTPTR [EVT$Q_LOGMSK];  
; 867      0858 4      FILMSK = EVTPTR [EVT$Q_FILTERMSK];  
; 868      0859 5      IF .GBLSRC NEQA 0  
; 869      0860 5      THEN  
; 870      0861 5      STATUS = NML$MATCHEVT (.GBLSRC,  
; 871      0862 5      .EVTPTR [EVT$W_CLASS],  
; 872      0863 5      GBLEVT)  
; 873      0864 5      ELSE  
; 874      0865 5      STATUS = FALSE;  
; 875      0866 5      IF .STATUS  
; 876      0867 5      AND (.GBLSRC NEQA 0)  
; 877      0868 5      THEN  
; 878      0869 5      BEGIN  
; 879      0870 5      GBLMSK = GBLEVT [EVT$Q_LOGMSK];  
; 880      0871 5      INCR I FROM 0 TO (EVT$S_LOGMSK * 8) - 1 DO  
; 881      0872 5      BEGIN  
; 882      0873 6      LOGMSK [.I] = .LOGMSK [.I] AND NOT .GBLMSK [.I];  
; 883      0874 5      FILMSK [.I] = .FILMSK [.I] AND .GBLMSK [.I];  
; 884      0875 6      END;  
; 885      0876 6      ELSE  
; 886      0877 6      BEGIN  
; 887      0878 6      LOGMSK [.I] = .LOGMSK [.I] AND NOT .GBLMSK [.I];  
; 888      0879 6      FILMSK [.I] = .FILMSK [.I] AND .GBLMSK [.I];  
; 889      0880 7      END;  
; 890      0881 7      ELSE  
; 891      0882 7      BEGIN  
; 892      0883 7      LOGMSK [.I] = .LOGMSK [.I] AND NOT .GBLMSK [.I];  
; 893      0884 7      FILMSK [.I] = .FILMSK [.I] AND .GBLMSK [.I];  
; 894      0885 6      END;  
; 895      0886 6      ELSE  
; 896      0887 5      BEGIN  
; 897      0888 6      LOGMSK [.I] = .LOGMSK [.I] AND NOT .GBLMSK [.I];  
; 898      0889 5      FILMSK [.I] = .FILMSK [.I] AND .GBLMSK [.I];  
; 899      0890 6      END;
```

NML SLOGOPS
V04-000

NML Logging data base operations module NMLSCLEANEVT Clean event masks

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[NML.SRC]NMLLOGOPS.B32;1

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898 0889 6
899 0890 7
900 0891 7
901 0892 7
902 0893 7
903 0894 6
904 0895 5
905 0896 4
906 0897 3
907 0898 2
908 0899 1
909 0900 1

INCR I FROM 0 TO (EVTSS_LOGMSK * 8) - 1 DO
BEGIN
FILMSK [.I] = 0;
END;
END;
END;
END;
END;
END;
END;

! End of NMLSCLEANEVT

			03FC	00000	.ENTRY	NML\$CLEANEVT, Save R2,R3,R4,R5,R6,R7,R8,R9	0776
59	00000000V	EF	9E	00002	MOVAB	NML\$GETNXTEVt, R9	
5E		10	C2	00009	SUBL2	#16, SP	
		SE	DD	0000C	PUSHL	SP	
		7E	D4	0000E	CLRL	-(SP)	
7E		01	CE	00010	MNEGL	#1, -(SP)	
		04	AC	DD	PUSHL	SNK	
		08	AC	DD	PUSHL	BLKDSC	
00000000V	EF	05	FB	00019	CALLS	#5, NML\$MATCHSRC	
	20	50	E9	00020	BLBC	R0, 4S	
		0C	AE	D4	CLRL	GBLEVT	0828
		0C	AE	9F	PUSHAB	GBLEVT	0829
		04	AE	DD	PUSHL	GBLSRC	
		69	02	FB	CALLS	#2, NML\$GETNXTEVt	
54		13	50	E9	BLBC	R0, 5S	
00	OC	AE	0C	C1	ADDL3	#12, GBLEVT, GBLMSK	0832
F8			50	D4	CLRL	I	0837
		64	50	E5	BBCC	I, (GBLMSK), 3S	
		50	3F	F3	AOBLEQ	#63, I, 2S	
			E3	11	BRB	1S	
			6E	D4	CLRL	GBLSRC	0834
		04	AE	D4	CLRL	SRCPTR	0829
		04	AE	9F	PUSHAB	SRCPTR	0843
		04	AC	DD	PUSHL	SNK	0847
00000000V	EF	08	AC	DD	PUSHL	BLKDSC	0848
	01	03	FB	00051	CALLS	#3, NML\$GETNXTSNK	
		50	E8	00058	BLBS	R0, 7S	
			04	0005B	RET		
FF	53	04	AE	D0	MOVL	SRCPTR, R3	0850
	8F	03	A3	91	CMPB	3(R3), #-1	
			E1	13	BEQL	6S	
		08	AE	D4	CLRL	EVTPTR	0857
		08	AE	9F	PUSHAB	EVTPTR	0858
			53	DD	PUSHL	R3	
			02	FB	CALLS	#2, NML\$GETNXTEVt	
56	69		50	E9	BLBC	R0, 6S	
55	D3		04	C1	ADDL3	#4, EVTPTR, LOGMSK	0861
	08	AE	0C	C1	ADDL3	#12, EVTPTR, FILMSK	0862
	08	AE	52	D4	CLRL	R2	0864
			6E	D5	TSTL	GBLSRC	

NML\$LOGOPS
V04-000

NML Logging data base operations module
NML\$CLEANEVT [Clean event masks]

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				18	13	00083		BEQL	98		
				52	D6	00085		INCL	R2		
				OC	AE	9F	00087	PUSHAB	GBLEVT		
				OC	BE	3C	0008A	MOVZWL	DEVTPTR, -(SP)		
				08	AE	DD	0008E	PUSHL	GBLSRC		
				03	FB	00091		CALLS	#3, NML\$MATCHEV		
				50	DO	00098		MOVL	R0, STATUS		
				02	11	0009B		BRB	10\$,		
				27	D4	0009D	98\$:	CLRL	STATUS		
				27	E9	0009F	10\$:	BLBC	STATUS, 12\$		
				52	E9	000A2		BLBC	R2, 12\$		
				04	C1	000A5		ADDL3	#4, GBLEVT, GBLMSK		
				50	D4	000AA		CLRL	I		
				50	EF	000AC	11\$:	EXTZV	I, #1, (LOGMSK), R2		
				50	EF	000B1		EXTZV	I, #1, (GBLMSK), R1		
				51	CA	000B6		BICL2	R1, R2		
				52	FO	000B9		INSV	R2, I, #1, (LOGMSK)		
				50	EF	000BE		EXTZV	I, #1, (FILMSK), R2		
				50	EF	000C3		EXTZV	I, #1, (GBLMSK), R1		
				52	D2	000C8		MCOML	R2, R8		
				58	CA	000CB		BICL2	R8, R1		
				51	FO	000CE		INSV	R1, I, #1, (FILMSK)		
				3F	F3	000D3		AOBLEQ	#63, I, 11\$		
				91	11	000D7		BRB	8\$		
				50	D4	000D9	12\$:	CLRL	I		
				50	E5	000DB	13\$:	BBCC	I, (FILMSK), 14\$		
				3F	F3	000DF	14\$:	AOBLEQ	#63, I, 13\$		
				85	11	000E3		BRB	8\$		
				04	000E5			RET			

: Routine Size: 230 bytes, Routine Base: \$CODE\$ + 0355

```

911      0901 1 %SBTTL 'NML$CLEANSRC [Clean sources'
912      0902 1 GLOBAL ROUTINE NML$CLEANSRC (BUFDSC, SNK, BLKDSC) : NOVALUE =
913
914      0903 1
915      0904 1 ++
916      0905 1 FUNCTIONAL DESCRIPTION:
917      0906 1
918      0907 1 This routine goes through all source blocks for the specified
919      0908 1 sink type and removes all event blocks that have no filters set.
920      0909 1 Source blocks with event blocks are also removed.
921      0910 1
922      0911 1 FORMAL PARAMETERS:
923      0912 1
924      0913 1       BUFDSC      Descriptor of buffer containing source blocks.
925      0914 1       SNK         Logging sink type code.
926      0915 1       BLKDSC     Descriptor of all source block data in buffer.
927      0916 1
928      0917 1 IMPLICIT INPUTS:
929      0918 1       NONE
930      0919 1
931      0920 1 IMPLICIT OUTPUTS:
932      0921 1       NONE
933      0922 1
934      0923 1
935      0924 1
936      0925 1 ROUTINE VALUE:
937      0926 1 COMPLETION CODES:
938      0927 1       NONE
939      0928 1
940      0929 1
941      0930 1 SIDE EFFECTS:
942      0931 1       NONE
943      0932 1
944      0933 1
945      0934 1
946      0935 1
947      0936 2
948      0937 2 BEGIN
949      0938 2 LOCAL
950      0939 2       EVT PTR : REF BBLOCK,           ! Pointer to event block
951      0940 2       FILMSK : REF BITVECTOR,
952      0941 2       LOGMSK : REF BITVECTOR,
953      0942 2       OLDEVT : REF BBLOCK,          ! Pointer to previous event block
954      0943 2       OLDSRC : REF BBLOCK,          ! Pointer to previous source block
955      0944 2       SRCPTR : REF BBLOCK,          ! Pointer to current source block
956      0945 2       STATUS;
957      0946 2
958      0947 2       OLDSRC = 0;
959      0948 2       SRCPTR = 0;
960      0949 2       WHILE NML$GETNXTSNK (.BLKDSC, .SNK, SRCPTR) DO
961      0950 2         BEGIN
962      0951 3           CHSMOVE (.SRCPTR [SRC$W_LENGTH], .SRCPTR, NML$T_SRCBUFFER);
963      0952 3
964      0953 3
965      0954 3           OLDEVT = 0;
966      0955 3           EVT PTR = 0;
967      0956 3           WHILE NML$GETNXT_EVT (NML$T_SRCBUFFER, EVT PTR) DO
968      0957 4             BEGIN

```

```

968      0958 4
969      0959 4
970      0960 4
971      0961 4
972      0962 4
973      0963 4
974      0964 5
975      0965 5
976      0966 5
977      0967 5
978      0968 6
979      0969 6
980      0970 6
981      0971 5
982      0972 4
983      0973 4
984      0974 4
985      0975 4
986      0976 5
987      0977 5
988      0978 5
989      0979 5
990      0980 4
991      0981 4
992      0982 4
993      0983 3
994      0984 3
995      0985 3
996      0986 3
997      0987 4
998      0988 4
999      0989 4
1000     0990 4
1001     0991 3
1002     0992 4
1003     0993 4
1004     0994 4
1005     0995 3
1006     0996 3
1007     0997 2
1008     0998 2
1009     0999 1

        0958 4
        0959 4
        LOGMSK = EVTPTR [EVT$Q_LOGMSK];
        FILMSK = EVTPTR [EVT$Q_FILTERMSK];
        STATUS = FALSE;
        INCR I FROM 0 TO (EVT$S_LOGMSK * 8) - 1 DO
        BEGIN
        IF .LOGMSK [.I] OR .FILMSK [.I]
        THEN
        BEGIN
        STATUS = TRUE;
        EXITLOOP;
        END;
        END;

        IF NOT .STATUS
        THEN
        BEGIN
        NML$REMEVT (NML$T_SRCBUFFER, .EVTPTR);
        EVTPTR = .OLDEVT;           ! Back up event pointer
        END
        ELSE
        OLDEVT = .EVTPTR;
        END;

        IF .NML$T_SRCBUFFER [SRC$W_MSKCOUNT] NEQU 0
        THEN
        BEGIN
        NML$REPSRC (.BUFDSC, .BLKDSC, .SRCPTR, NML$T_SRCBUFFER);
        OLDSRC = .SRCPTR;
        END
        ELSE
        BEGIN
        NML$REMSRC (.BLKDSC, .SRCPTR);
        SRCPTR = .OLDSRC;           ! Back up the source pointer
        END;
        END;
        END;
        ! End of NML$CLEANSRC

```

		OFFC 00000	.ENTRY	NML\$CLEANSRC, Save R2,R3,R4,R5,R6,R7,R8,R9,-; 0902
SE		04 C2 00002	SUBL2	R10,R11
		58 D4 00005	#4, SP	
		7E D4 00007	CLRL	OLDSRC
		5E DD 00009 1\$:	CLRL	SRCPTR
	08	AC DD 0000B	PUSHL	SP
00000000V	EF	0C AC DD 0000E	PUSHL	SNK
	01	03 FB 00011	PUSHL	BLKDSC
		50 E8 00018	CALLS	#3, NML\$GETNXTSNK
			BLBS	R0, 28

NML SLOGOPS
V04-000

NML Logging data base operations module NML\$CLEANSRC Clean sources

10

16-Sep-1984 00:19:25
14-Sep-1984 12:50:11

VAX-11 Bliss-32 V4.0-742
[NML.SRC]NMLLOGOPS.B32;1

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(11)

NM
VO

00000000' EF	56	04	00001B	RET		0952
	66	66	00001C	MOVL	SRCPTR, R6	0954
		04	00001F	MOV C3	(R6), (R6), NMLST_SRCBUFFER	0955
		04	000027	CLRL	OLDEVT	0956
		AE	000029	CLRL	EVT PTR	
		AE	00002C	PUSHAB	EVT PTR	
		FF	00002F	PUSHAB	NMLST_SRCBUFFER	
00000000V	EF	02	FB	CALLS	#2, NMLSGETNXTEVT	
	3E	50	E9	BLBC	R0, 9\$	
5A	04	04	C1	ADDL3	#4, EVT PTR, LOGMSK	0959
5B	04	0C	C1	ADDL3	#12, EVT PTR, FILMSK	0960
		57	D4	CLRL	STATUS	0962
		50	D4	CLRL	I	0966
04	6A	50	E0	BBS	I, (LOGMSK), 5\$	
05	6B	50	E1	BBC	I, (FILMSK), 6\$	
	57	01	D0	MOVL	#1, STATUS	
		04	11	BRB	7\$	
EF	50	3F	F3	AOBLEQ	#63, I, 4\$	
	16	57	E8	BLBS	STATUS, 8\$	0974
		04	DD	PUSHL	EVT PTR	0977
00000000V	EF	02	FB	PUSHAB	NMLST_SRCBUFFER	
04	AE	59	D0	CALLS	#2, NMLSREMEVT	0978
		85	11	MOVL	OLDEVT, EVT PTR	0974
59	04	AE	D0	BRB	3\$	0981
		AF	11	MOVL	EVT PTR, OLDEVT	
		00000000'	EF	BRB	3\$	0956
		85	0007D	TSTW	NMLST_SRCBUFFER+22	0985
		1A	13	BEQL	10\$	
		00000000'	FF	PUSHAB	NMLST_SRCBUFFER	0988
		56	9F	PUSHL	R6	
		OC	DD	PUSHL	BLKDSC	
		04	AC	PUSHL	BUFDSC	
00000000V	EF	04	FB	CALLS	#4, NMLSREPSRC	
58		56	D0	MOVL	R6, OLDSRC	0989
		0F	11	BRB	11\$	0985
		56	DD	PUSHL	R6	0993
		OC	AC	PUSHL	BLKDSC	
00000000V	EF	02	FB	CALLS	#2, NMLSREMSRC	
6E		58	D0	MOVL	OLDSRC, SRCPTR	0994
		FF	31	BRW	1\$	0949
		58	000AB	RET		0999
		04	000AE			
		04	000B1			

; Routine Size: 178 bytes, Routine Base: SCODES + 043B

```

1011    1000 1 XSBTTL 'NML$MATCHSRC Match specific source'
1012    1001 1 GLOBAL ROUTINE NML$MATCHSRC (BLKDSC, SNK, SRC, ENTDSC, SRCPTR) =
1013    1002 1
1014    1003 1 ++
1015    1004 1 |+| FUNCTIONAL DESCRIPTION:
1016    1005 1
1017    1006 1 |+| This routine searches the sink node buffer for a source block
1018    1007 1 |+| that matches the specified event source.
1019    1008 1
1020    1009 1 |+| FORMAL PARAMETERS:
1021    1010 1
1022    1011 1     BLKDSC      Descriptor of source block buffer.
1023    1012 1     SNK          Logging sink type code.
1024    1013 1     SRC          Event source type code.
1025    1014 1     ENTDSC      Event source id string descriptor.
1026    1015 1     SRCPTR      Pointer to longword in which to return address
1027    1016 1     of source block.
1028    1017 1
1029    1018 1 |+| IMPLICIT INPUTS:
1030    1019 1     NONE
1031    1020 1
1032    1021 1
1033    1022 1 |+| IMPLICIT OUTPUTS:
1034    1023 1     NONE
1035    1024 1
1036    1025 1
1037    1026 1 |+| ROUTINE VALUE:
1038    1027 1 |+| COMPLETION CODES:
1039    1028 1     TRUE is returned if a match is found, FALSE is returned if no match.
1040    1029 1
1041    1030 1 |+| SIDE EFFECTS:
1042    1031 1     NONE
1043    1032 1
1044    1033 1
1045    1034 1
1046    1035 1 |+|
1047    1036 1
1048    1037 2 |+| BEGIN
1049    1038 2
1050    1039 2 |+| MAP
1051    1040 2     SRC : BYTE,
1052    1041 2     ENTDSC : REF DESCRIPTOR;
1053    1042 2
1054    1043 2 |+| LOCAL
1055    1044 2     PTR : REF BBLOCK,           ! Temporary source block pointer
1056    1045 2     STATUS,                  ! Routine status
1057    1046 2     TSTLEN,                 ! Length of source to compare
1058    1047 2     TSTPTR;                 ! Address of source to compare
1059    1048 2
1060    1049 2     PTR = 0;                ! Initialize source pointer
1061    1050 2     STATUS = FALSE;          ! Initialize routine status
1062    1051 2
1063    1052 2 |+| WHILE NML$GETNXTSNK (.BLKDSC, .SNK, PTR) DO
1064    1053 2     BEGIN
1065    1054 2     IF .PTR [SRC$B_SRCTYPE] EQLU .SRC
1066    1055 2     THEN
1067    1056 4     BEGIN

```

```
: 1068      1057 4 |  
.: 1069      1058 4 | Select the length and address of the source to compare.  
.: 1070      1059 4 |  
.: 1071      1060 4 |     SELECTONEU .SRC OF  
.: 1072      1061 4 |     SET  
.: 1073      1062 4 |  
.: 1074      1063 4 |     [NMASC_ENT_NOD]: ! Node  
.: 1075      1064 5 |     BEGIN  
.: 1076      1065 5 |  
.: 1077      1066 5 |     IF .(ENTDSC [DSCSA_POINTER])<0,16> EOLU  
.: 1078      1067 5 |     .PTR [SRC$W_NODADR]  
.: 1079      1068 5 |     THEN  
.: 1080      1069 5 |     STATUS = TRUE:  
.: 1081      1070 5 |  
.: 1082      1071 4 |     END:  
.: 1083      1072 4 |  
.: 1084      1073 4 |     [NMASC_ENT_CIR,  
.: 1085      1074 4 |     NMASC_ENT_LIN  
.: 1086      1075 4 |     NMASC_ENT_MOD]: ! Circuit or Line or Module  
.: 1087      1076 5 |     BEGIN  
.: 1088      1077 5 |  
.: 1089      1078 5 |     IF CHSEQL (.ENTDSC [DSC$W_LENGTH],  
.: 1090      1079 5 |     .ENTDSC [DSCSA_POINTER],  
.: 1091      1080 5 |     .PTR [SRC$B_ID[LENGTH],  
.: 1092      1081 5 |     PTR [SRC$T_ID])  
.: 1093      1082 5 |     THEN  
.: 1094      1083 5 |     STATUS = TRUE;  
.: 1095      1084 5 |  
.: 1096      1085 4 |     END:  
.: 1097      1086 4 |  
.: 1098      1087 4 |     [OTHERWISE]: ! Null  
.: 1099      1088 5 |     BEGIN  
.: 1100      1089 5 |  
.: 1101      1090 5 |     STATUS = TRUE;  
.: 1102      1091 5 |  
.: 1103      1092 4 |     END:  
.: 1104      1093 4 |     TES:  
.: 1105      1094 4 |  
.: 1106      1095 4 |     IF .STATUS  
.: 1107      1096 4 |     THEN  
.: 1108      1097 5 |     BEGIN  
.: 1109      1098 5 |  
.: 1110      1099 5 |     .SRCPTR = .PTR;  
.: 1111      1100 5 |     EXITLOOP;  
.: 1112      1101 5 |  
.: 1113      1102 4 |     END:  
.: 1114      1103 3 |     END:  
.: 1115      1104 2 |     END:  
.: 1116      1105 2 |  
.: 1117      1106 2 |  
.: 1118      1107 2 |  
.: 1119      1108 1 |     RETURN .STATUS  
.:           1 |  
.:           1 |     END:  
.:           1 |     ! End of NMLSMATCHSRC
```

NML\$LOGOPS
V04-000NML Logging data base operations module
NML\$MATCHSRC Match specific sourceB 11
16-Sep-1984 00:19:25
14-Sep-1984 12:50:11
VAX-11 Bliss-32 V4.0-742
[NML.SRC]NMLLOGOPS.B32;1Page 36
(12)NML
V04

				007C 00000	.ENTRY	NML\$MATCHSRC, Save R2,R3,R4,R5,R6	:	1001
				7E D4 00002	CLRL	PTR	:	1049
			55	56 D4 00004	CLRL	STATUS	:	1050
			0C	AC 9A 00006	MOVZBL	SRC, R5	:	1054
				SE DD 0000A	PUSHL	SP	:	1052
				18:	MOVQ	BLKDSC, -(SP)	:	1
			00000000V	7E 04	CALLS	#3, NML\$GETNXTSNK	:	1
				EF 03	BLBC	R0 7S	:	1
				45 50	MOVL	PTR, R4	:	1054
				54 E9 00017	CMPZV	#0, #8, 3(R4), R5	:	1
			55	6E D0 0001A	BNEQ	1S	:	1
			08	00 ED 0001D	TSTL	R5	:	1063
				F5 12 00023	BNEQ	2S	:	1
				55 D5 00025	MOVL	ENTDSC, R0	:	1066
				0B 12 00027	CMPW	4(R0), 4(R4)	:	1067
			04	50 AC 00029	BRB	4S	:	1
			A4	A0 B1 0002D	CMPB	R5, #1	:	1073
			10	1F 11 00032	BEQL	3S	:	1
			04	55 91 00034	55:	CMPB	R5, #3	1
				0A 13 00037	BLSSU	5S	:	1
			01	55 91 00039	CMPB	R5, #4	:	1
			03	17 1F 0003C	BGTRU	5S	:	1
			04	55 91 0003E	MOVL	ENTDSC, R0	:	1078
				12 1A 00041	MOVZBL	4(R4), R1	:	1080
			50	50 AC 00043	CMPCS	(R0), 24(R0), #0, R1, 5(R4)	:	1081
			51	51 9A 00047	BNEQ	6S	:	1
			04	60 2D 0004B	MOVL	#1, STATUS	:	1090
				A4 00051	BLBC	STATUS, 1S	:	1095
			05	03 12 00053	MOVL	R4, ASRCPTR	:	1099
				01 D0 00055	7S:	STATUS, R0	:	1106
			56 AF	56 E9 00053	RET		:	1108
			14 BC	54 D0 0005B			:	
			50	56 D0 0005F			:	
				04 00062			:	

: Routine Size: 99 bytes, Routine Base: SCODES + 04ED

```

1121      1109 1 XSBTTL 'NML$GETNXTSNK Get next source block for specified sink'
1122      1110 1 GLOBAL ROUTINE NML$GETNXTSNK (BLKDSC, SNK, SRCPTR) =
1123      1111 1
1124      1112 1 +++
1125      1113 1 | FUNCTIONAL DESCRIPTION:
1126      1114 1 |
1127      1115 1 | This routine searches the sink node buffer for the next source block
1128      1116 1 | that matches the specified sink type.
1129      1117 1 |
1130      1118 1 | FORMAL PARAMETERS:
1131      1119 1 |
1132      1120 1 |     BLKDSC      Descriptor of event source block buffer.
1133      1121 1 |     SNK         Logging sink type code to match.
1134      1122 1 |     SRCPTR     Address of longword in which to return address
1135      1123 1 |               of source block. If within range of buffer
1136      1124 1 |               it will be used as the starting point from which
1137      1125 1 |               to get the next source block that matches the
1138      1126 1 |               specified sink.
1139      1127 1 |
1140      1128 1 | IMPLICIT INPUTS:
1141      1129 1 |
1142      1130 1 |     NONE
1143      1131 1 |
1144      1132 1 | IMPLICIT OUTPUTS:
1145      1133 1 |
1146      1134 1 |     NONE
1147      1135 1 |
1148      1136 1 | ROUTINE VALUE:
1149      1137 1 | COMPLETION CODES:
1150      1138 1 |
1151      1139 1 |     TRUE is returned if a match is found, FALSE is returned if no match.
1152      1140 1 |
1153      1141 1 | SIDE EFFECTS:
1154      1142 1 |
1155      1143 1 |     NONE
1156      1144 1 |
1157      1145 1 | --
1158      1146 1 |
1159      1147 2 | BEGIN
1160      1148 2 |
1161      1149 2 | LOCAL
1162      1150 2 |     PTR : REF BBLOCK,          ! Temporary source block pointer
1163      1151 2 |     STATUS;                  ! Routine status
1164      1152 2 |
1165      1153 2 |     STATUS = FALSE;           ! Initialize routine status
1166      1154 2 |     PTR = ..SRCPTR;           ! Initialize source pointer
1167      1155 2 |
1168      1156 2 | WHILE NML$GETNXTSRC (.BLKDSC, PTR) DO
1169      1157 3 |   BEGIN
1170      1158 3 |     IF .PTR [SRC$B_SINKTYPE] EQLU .SNK
1171      1159 3 |     THEN
1172      1160 4 |       BEGIN
1173      1161 4 |         .SRCPTR = .PTR;          ! Set source pointer for return
1174      1162 4 |         STATUS = TRUE;
1175      1163 4 |         EXITLOOP
1176      1164 3 |       END;
1177      1165 2 |   END;

```

```
: 1178
: 1179
: 1180
: 1181    1166 2      RETURN .STATUS
           1167 2
           1168 2      END:
           1169 1
```

! End of NML\$GETNXTSNK

				0004 00000		.ENTRY	NML\$GETNXTSNK, Save R2	1110
				52 D4 00002		CLRL	STATUS	1153
				BC DD 00004		PUSHL	@SRCPTR	1154
				5E DD 00007	1\$:	PUSHL	SP	1156
				AC DD 00009		PUSHL	BLKDSC	1
		00000000V	EF	02 FB 0000C		CALLS	#2, NML\$GETNXTSRC	1
			13	50 E9 00013		BLBC	R0, 2\$	1
			50	6E D0 00016		MOVL	PTR, R0	1158
08	AC	02	A0	00 ED 00019		CMPZV	#0, #8, 2(R0), SNK	1
				E5 12 00020		BNEQ	1\$	1
				50 D0 00022		MOVL	R0, @SRCPTR	1161
				01 D0 00026		MOVL	#1, STATUS	1162
				52 D0 00029	2\$:	MOVL	STATUS, R0	1167
				04 0002C		RET		1169

: Routine Size: 45 bytes, Routine Base: \$CODES + 0550

```

: 1183      1170 1 XSBTTL 'NML$GETNXTSRC Get next source block'
: 1184      1171 1 GLOBAL ROUTINE NML$GETNXTSRC (BLKDSC, SRCPTR) =
: 1185      1172 1 ++
: 1186      1173 1 | FUNCTIONAL DESCRIPTION:
: 1187      1174 1 | This routine searches the sink node buffer for the next source
: 1188      1175 1 | block.
: 1189      1176 1 |
: 1190      1177 1 |
: 1191      1178 1 |
: 1192      1179 1 | FORMAL PARAMETERS:
: 1193      1180 1 |
: 1194      1181 1 |     BLKDSC      Descriptor of source block buffer.
: 1195      1182 1 |     SRCPTR      Address of longword in which to return the address
: 1196      1183 1 |                   of the next source block. If value is within buffer
: 1197      1184 1 |                   range on input then it is used as the address of the
: 1198      1185 1 |                   starting source block.
: 1199      1186 1 |
: 1200      1187 1 | IMPLICIT INPUTS:
: 1201      1188 1 |     NONE
: 1202      1189 1 |
: 1203      1190 1 | IMPLICIT OUTPUTS:
: 1204      1191 1 |     NONE
: 1205      1192 1 |
: 1206      1193 1 |
: 1207      1194 1 |
: 1208      1195 1 | ROUTINE VALUE:
: 1209      1196 1 | COMPLETION CODES:
: 1210      1197 1 |
: 1211      1198 1 |     TRUE is returned if a match is found, FALSE is returned if no match.
: 1212      1199 1 |
: 1213      1200 1 | SIDE EFFECTS:
: 1214      1201 1 |
: 1215      1202 1 |     NONE
: 1216      1203 1 |
: 1217      1204 1 | --
: 1218      1205 1 |
: 1219      1206 2 | BEGIN
: 1220      1207 2 |
: 1221      1208 2 |
: 1222      1209 2 | MAP
: 1223      1210 2 |     BLKDSC : REF DESCRIPTOR;
: 1224      1211 2 |
: 1225      1212 2 | LOCAL
: 1226      1213 2 |     BUFEND,           ! Pointer to end of buffer
: 1227      1214 2 |     PTR    : REF BBLOCK, ! Temporary source block pointer
: 1228      1215 2 |     STATUS;          ! Routine status
: 1229      1216 2 |
: 1230      1217 2 | If descriptor indicates no source blocks (length=0) then
: 1231      1218 2 | return failure.
: 1232      1219 2 |
: 1233      1220 2 | IF .BLKDSC [DSCSW_LENGTH] EQLU 0
: 1234      1221 2 | THEN
: 1235      1222 2 |     RETURN FALSE;
: 1236      1223 2 |
: 1237      1224 2 |     BUFEND = .BLKDSC [DSCSA_POINTER] + .BLKDSC [DSCSW_LENGTH];
: 1238      1225 2 |     PTR   = ..SRCPTR;          ! Initialize source pointer
: 1239      1226 2 !

```

```

1240      1227 2 | If PTR contains a value on input that is within the buffer range then
1241      1228 2 | use it as the starting point. If the value is not valid then return
1242      1229 2 | the address of the first source block in the buffer.
1243      1230 2 |
1244      1231 2 |   IF (.PTR LSSA .BLKDSC [DSCSA_POINTER])
1245      1232 2 |     OR
1246      1233 2 |     (.PTR GEQA .BUFEND)
1247      1234 2 |   THEN
1248      1235 2 |     PTR = .BLKDSC [DSCSA_POINTER]
1249      1236 2 |   ELSE
1250      1237 2 |     PTR = .PTR + .PTR [SRCSW_LENGTH];
1251      1238 2 |
1252      1239 2 | If pointer is still within range of buffer then return TRUE else
1253      1240 2 | return FALSE to indicate no more source blocks.
1254      1241 2 |
1255      1242 2 |   IF .PTR GEQA .BUFEND
1256      1243 2 |   THEN
1257      1244 2 |     STATUS = FALSE
1258      1245 2 |
1259      1246 2 |   ELSE
1260      1247 3 |     BEGIN
1261      1248 3 |       .SRCPTR = .PTR;           ! Set source pointer for return
1262      1249 3 |       STATUS = TRUE;
1263      1250 3 |     END;
1264      1251 2 |   RETURN .STATUS
1265      1252 2 |
1266      1253 1 |   END;                      ! End of NML$GETNXTSRC

```

					ENTRY	NML\$GETNXTSRC, Save R2	
	51	04	0004	00000	MOVL	BLKDSC, R1	1171
			AC	D0 00002	TSTW	(R1)	1220
			61	B5 00006	BEQL	4\$	
	52	04	2F	13 00008	MOVZWL	(R1), BUFEND	1224
	52	08	61	3C 0000A	ADDL2	4(R1), BUFEND	
04	A1	08	A1	C0 0000D	MOVL	@SRCPTR, PTR	1225
	50	08	BC	D0 00011	CMPL	PTR, 4(R1)	1231
	52		50	D1 00015	BLSSU	1\$	
			05	1F 00019	CMPL	PTR, BUFEND	1233
	52		50	D1 0001B	BLSSU	2\$	
			06	1F 0001E	MOVL	4(R1), PTR	1235
	50	04	A1	D0 00020	BRB	3\$	
			06	11 00024	MOVZWL	(PTR), R1	1237
	51		60	3C 00026	ADDL2	R1, PTR	
	50		51	C0 00029	CMPL	PTR, BUFEND	1242
	52		50	D1 0002C	BGEQU	4\$	
08	BC	08	08	1E 0002F	MOVL	PTR, @SRCPTR	1247
	50	01	50	D0 00031	MOVL	#1, STATUS	1248
		04	01	D0 00035	RET		1251
		04	04	00038	CLRL	R0	1253
		04	50	D4 00039	RET		
		04	04	0003B			

; Routine Size: 60 bytes, Routine Base: \$CODES + 057D

NML\$LOGOPS
V04-000

NML Logging data base operations module
NML\$GETNXTSRC Get next source block

6 11
16-Sep-1984 00:19:25
14-Sep-1984 12:50:11

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[NML.SRC]NMLLOGOPS.B32;1

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NML
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```
1268 1254 1 %SBTTL 'NMLSMATCHEVT Get event block matching specified class'
1269 1255 1 GLOBAL ROUTINE NMLSMATCHEVT (SRCPTR, CLASS, EVTPTR) =
1270 1256 1
1271 1257 1 ++
1272 1258 1 |+| FUNCTIONAL DESCRIPTION:
1273 1259 1
1274 1260 1 |+| This routine searches the source block for an event block that
1275 1261 1 |+| matches the specified class.
1276 1262 1
1277 1263 1 |+| FORMAL PARAMETERS:
1278 1264 1
1279 1265 1 SRCPTR Pointer to source block.
1280 1266 1 CLASS Class code to match.
1281 1267 1 EVTPTR Address of longword in which the pointer to
1282 1268 1 |+| the matched event block will be returned.
1283 1269 1
1284 1270 1 |+| IMPLICIT INPUTS:
1285 1271 1 |+| NONE
1286 1272 1
1287 1273 1 |+| IMPLICIT OUTPUTS:
1288 1274 1 |+| NONE
1289 1275 1
1290 1276 1 |+| ROUTINE VALUE:
1291 1277 1 |+| COMPLETION CODES:
1292 1278 1 |+| TRUE is returned if a match is found, FALSE is returned if no match.
1293 1279 1
1294 1280 1
1295 1281 1 |+| SIDE EFFECTS:
1296 1282 1 |+| NONE
1297 1283 1
1298 1284 1
1299 1285 1
1300 1286 1
1301 1287 1 |--|
1302 1288 1
1303 1289 2 |+| BEGIN
1304 1290 2
1305 1291 2 |+| MAP
1306 1292 2 |+| SRCPTR : REF BBLOCK;
1307 1293 2
1308 1294 2 |+| LOCAL
1309 1295 2 |+| PTR : REF BBLOCK, ! Temporary event block pointer
1310 1296 2 |+| STATUS; ! Routine status
1311 1297 2
1312 1298 2 |+| PTR = 0; ! Initialize source pointer
1313 1299 2 |+| STATUS = FALSE; ! Initialize routine status
1314 1300 2
1315 1301 2 |+| WHILE NMLGETNXT_EVT (.SRCPTR, PTR) DO
1316 1302 3 |+| BEGIN
1317 1303 3 |+| IF .PTR [EVTSW_CLASS] EQLU .CLASS
1318 1304 3 |+| THEN
1319 1305 4 |+| BEGIN
1320 1306 4 |+| .EVTPTR = .PTR; ! Set event pointer for return
1321 1307 4 |+| STATUS = TRUE;
1322 1308 4 |+| EXITLOOP
1323 1309 3 |+| END;
1324 1310 2 |+| END;
```

NML\$LOGOPS
V04-000

NML Logging data base operations module
NML\$MATCHEV

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: 1325
: 1326
: 1327
: 1328

1311 2
1312 2
1313 2
1314 1

RETURN .STATUS
END:

! End of NML\$MATCHEV

NML
V04

: 1
: 1
: 1
: 1

08 AC 00 BE 00000000V EF 04 0C BC 52 50 10 10 00 01 6E 00 0001E 01 00 0002E 52 00 00025 04 00028

0004 00000
7E D4 00002
52 D4 00004
5E DD 00006 1\$:
AC DD 00008
02 FB 0000B
50 E9 00012
00 ED 00015
E8 12 0001C
6E D0 0001E
01 D0 0002E
52 D0 00025 2\$:
04 00028

.ENTRY NML\$MATCHEV, Save R2
CLRL PTR
CLRL STATUS
PUSHL SP
PUSHL SRCPTR
CALLS #2, NML\$GETNXTEVT
BLBC R0, 2\$
CMPZV #0, #16, APTR, CLASS
BNEQ 1\$
MOVL PTR, BEVTPTR
MOVL #1, STATUS
MOVL STATUS, R0
RET

: 1255
: 1298
: 1299
: 1301
: 1303
: 1306
: 1307
: 1312
: 1314

: Routine Size: 41 bytes. Routine Base: \$CODE\$ + 05B9

```

1330      1315 1 %SBTTL 'NML$GETNXTEVT Get next event block'
1331      1316 1 GLOBAL ROUTINE NML$GETNXTEVT (SRCPTR, EVT PTR) =
1332      1317 1
1333      1318 1 ++
1334      1319 1 | FUNCTIONAL DESCRIPTION:
1335      1320 1 | This routine searches the source block for the next event block.
1336      1321 1
1337      1322 1 | FORMAL PARAMETERS:
1338      1323 1
1339      1324 1
1340      1325 1 | SRCPTR Pointer to source block.
1341      1326 1 | EVT PTR Address of longword to contain address of matched
1342      1327 1 | event block. If the value is within the event block
1343      1328 1 | range then it is used as the starting event block
1344      1329 1 | address.
1345      1330 1
1346      1331 1 | IMPLICIT INPUTS:
1347      1332 1 | NONE
1348      1333 1 | IMPLICIT OUTPUTS:
1349      1334 1 | NONE
1350      1335 1 | ROUTINE VALUE:
1351      1336 1 | COMPLETION CODES:
1352      1337 1
1353      1338 1
1354      1339 1
1355      1340 1
1356      1341 1
1357      1342 1 | TRUE is returned if a match is found, FALSE is returned if no match.
1358      1343 1
1359      1344 1 | SIDE EFFECTS:
1360      1345 1 | NONE
1361      1346 1
1362      1347 1
1363      1348 1
1364      1349 1
1365      1350 2 | BEGIN
1366      1351 2
1367      1352 2 | MAP
1368      1353 2 | SRCPTR : REF BBLOCK;
1369      1354 2
1370      1355 2 | LOCAL
1371      1356 2 | CLASSES,          | Number of event event blocks
1372      1357 2 | MASKEND,         | Pointer to end of masks
1373      1358 2 | MASKPTR,         | Pointer to masks
1374      1359 2 | PTR : REF BBLOCK, | Temporary event block pointer
1375      1360 2 | STATUS;          | Routine status
1376      1361 2
1377      1362 2 | CLASSES = .SRCPTR [SRC$W_MSKCOUNT];
1378      1363 2
1379      1364 2 | If no event masks are present (count=0) then
1380      1365 2 | return failure.
1381      1366 2
1382      1367 2 | IF .CLASSES EQLU 0
1383      1368 2 | THEN
1384      1369 2 | RETURN FALSE;
1385      1370 2
1386      1371 2 | MASKPTR = .SRCPTR + SRC$K_LENGTH;

```

50	04	0004	00000	.	ENTRY	NML\$GETNXT_EVT,	SavE R2		1316
51	16	AC	D0	00002	MOVL	SRCPTR,	R0		1362
		A0	3C	00006	MOVZWL	22(R0),	CLASSES		
		20	13	0000A	BEQL	4S			1367
50		18	C0	0000C	ADDL2	#24.	MASKPTR		1371
51		14	C4	0000F	MULL2	#20,	R1		1372
51		50	C1	00012	ADDL3	MASKPTR,	R1,	MASKEND	
51	08	BC	D0	00016	MOVL	DEVTPTR,	PTR		1373
50		51	D1	0001A	CMPL	PTR,	MASKPTR		1379
52		05	1F	0001D	BLSSU	1S			1381
		51	D1	0001F	CMPL	PTR,	MASKEND		
		05	1F	00022	BLSSU	2S			
51		50	D0	00024	1S:	MOVL	MASKPTR,	PTR	1383
		03	11	00027	BRB	3S			
51		14	C0	00029	2S:	ADDL2	#20.	PTR	1385
52		51	D1	0002C	3S:	CMPL	PTR,	MASKEND	1390
		08	1E	0002F	BGEQU	4S			
08	BC	51	D0	00031	MOVL	PTR,	DEVTPTR		1395
		50	D0	00035	MOVL	#1,	STATUS		1396
		01	D0	00038	RET				1399
		50	D4	00039	4S:	CLRL	R0		
		04	0003B		RET				1401

NML\$LOGOPS
V04-000

NML Logging data base operations module
NML\$GETNXT_EVT Get next event block

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; Routine Size: 60 bytes. Routine Base: SCODES + 05E2

```

: 1418      1402 1 ISBTTL 'NML$BLDSRC Build a source block'
: 1419      1403 1 GLOBAL ROUTINE NML$BLDSRC (BUFDSC, SNK, SRC, ENTDSC) : NOVALUE =
: 1420      1404 1
: 1421      1405 1 ++
: 1422      1406 1 FUNCTIONAL DESCRIPTION:
: 1423      1407 1 This routine builds a source block.
: 1424      1408 1
: 1425      1409 1 FORMAL PARAMETERS:
: 1426      1410 1
: 1427      1411 1
: 1428      1412 1 BUFDSC Descriptor of buffer to hold new source block.
: 1429      1413 1 (Assumed to be at least SRC$K_LENGTH bytes.)
: 1430      1414 1 SNK Logging sink type code.
: 1431      1415 1 SRC Event source type code.
: 1432      1416 1 ENTDSC Event source id string descriptor.
: 1433      1417 1
: 1434      1418 1 IMPLICIT INPUTS:
: 1435      1419 1
: 1436      1420 1 NONE
: 1437      1421 1
: 1438      1422 1 IMPLICIT OUTPUTS:
: 1439      1423 1
: 1440      1424 1 NONE
: 1441      1425 1
: 1442      1426 1 ROUTINE VALUE:
: 1443      1427 1 COMPLETION CODES:
: 1444      1428 1
: 1445      1429 1 NONE
: 1446      1430 1
: 1447      1431 1 SIDE EFFECTS:
: 1448      1432 1
: 1449      1433 1 NONE
: 1450      1434 1
: 1451      1435 1 --
: 1452      1436 1
: 1453      1437 2 BEGIN
: 1454      1438 2
: 1455      1439 2 MAP
: 1456      1440 2     BUFDSC : REF DESCRIPTOR,
: 1457      1441 2     ENTDSC : REF DESCRIPTOR;
: 1458      1442 2
: 1459      1443 2 LOCAL
: 1460      1444 2     SRCPTR : REF BBLOCK;
: 1461      1445 2
: 1462      1446 2     SRCPTR = .BUFDSC [DSCSA_POINTER];
: 1463      1447 2     CHSFILL (0, SRC$K_LENGTH, .SRCPTR); ! Zero the event block
: 1464      1448 2
: 1465      1449 2     SRCPTR [SRC$W_LENGTH] = SRC$K_LENGTH;
: 1466      1450 2     SRCPTR [SRC$B_SINKTYPE] = .SNK;
: 1467      1451 2     SRCPTR [SRC$B_SRCTYPE] = .SRC;
: 1468      1452 2
: 1469      1453 2     SELECTONEU .SRC OF
: 1470      1454 2     SET
: 1471      1455 2     [NMASC_ENT_NOD]: ! Node
: 1472      1456 2
: 1473      1457 2     CHSMOVE {2,
: 1474      1458 2     ENTDSC [DSCSA_POINTER].
```

```

: 1475      1459  2          SRCPTR [SRC$W_NODADR]);;
: 1476      1460  2
: 1477      1461  2          [NMASC_ENT_CIR,
: 1478      1462  2          NMASC_ENT_LIN,
: 1479      1463  2          NMASC_ENT_MOD];      ! Circuit or Line or Module
: 1480      1464  3          BEGIN
: 1481      1465  3
: 1482      1466  3          SRCPTR [SRC$B_IDLENGTH] = .ENTDSC [DSC$W_LENGTH];
: 1483      1467  3          CHSMOVE (.ENTDSC [DSC$W_LENGTH],
: 1484      1468  3          .ENTDSC [DSC$A_POINTER],
: 1485      1469  3          SRCPTR [SRC$T_ID]);
: 1486      1470  3
: 1487      1471  2          END;
: 1488      1472  2
: 1489      1473  2          TES;
: 1490      1474  2
: 1491      1475  1          END;          ! End of NML$BLDSRC

```

						ENTRY	NML\$BLDSRC, Save R2,R3,R4,R5,R6	: 1403
18	00	50	04	007C 00000	MOVL	BUFDSC, R0	: 1446	
		56	04	A0 D0 00002	MOVL	4(R0), SRCPTR	: 1447	
		6E	04	00 2C 0000A	MOVCS	#0, (\$P), #0, #24, (SRCPTR)	: 1449	
		66	18	80 00010	MOVW	#24, (SRCPTR)	: 1450	
		02 A6	08	AC 90 00013	MOVB	SNK, 2(SRCPTR)	: 1451	
		50	0C	AC D0 00018	MOVL	SRC, R0	: 1455	
		03 A6		50 90 0001C	MOVB	R0, 3(SRCPTR)	: 1458	
				50 D5 00020	TSTL	R0	: 1461	
				0A 12 00022	BNEQ	1S	: 1466	
		50	10	AC D0 00024	MOVL	ENTDSC, R0	: 1469	
		A6	04	A0 B0 00028	MOVW	4(R0), 4(SRCPTR)	: 1475	
				04 0002D	RET			
			01	50 D1 0002E	CMPL	R0, #1		
				0A 13 00031	BEQL	2S		
			03	50 D1 00033	CMPL	R0, #3		
				13 1F 00036	BLSSU	3S		
			04	50 D1 00038	CMPL	R0, #4		
				0E 1A 0003B	BGTRU	3S		
		05 A6	10	AC D0 0003D	MOVL	ENTDSC, R0		
		04	04	60 90 00041	MOVB	(R0), 4(SRCPTR)		
		B0		60 28 00045	MOVCS	(R0), 24(R0), 5(SRCPTR)		
				04 0004B	RET			

; Routine Size: 76 bytes, Routine Base: \$CODE\$ + 061E

```
: 1493    1476 1 %SBTTL 'NML$BLDEVT Build an event class block'  
: 1494    1477 1 GLOBAL ROUTINE NML$BLDEVT (FCT, CLASS, MSKLEN, MSKPTR, EVT PTR) : NOVALUE =  
: 1495    1478 1  
: 1496    1479 1 //++  
: 1497    1480 1 FUNCTIONAL DESCRIPTION:  
: 1498    1482 1 This routine builds an event class block.  
: 1500    1483 1  
: 1501    1484 1 FORMAL PARAMETERS:  
: 1502    1485 1  
: 1503    1486 1     FCT          Mask operation code. (0=CLEAR, 1=SET)  
: 1504    1487 1     CLASS         Event class code.  
: 1505    1488 1     MSKLEN        Length in bytes of event mask.  
: 1506    1489 1     MSKPTR        Address of event mask.  
: 1507    1490 1     EVT PTR       Address of event block to be filled in.  
: 1508    1491 1  
: 1509    1492 1 IMPLICIT INPUTS:  
: 1510    1493 1     NONE  
: 1511    1494 1  
: 1512    1495 1 IMPLICIT OUTPUTS:  
: 1513    1496 1     NONE  
: 1514    1497 1  
: 1515    1498 1  
: 1516    1499 1  
: 1517    1500 1 ROUTINE VALUE:  
: 1518    1501 1 COMPLETION CODES:  
: 1519    1502 1     NONE  
: 1520    1503 1  
: 1521    1504 1  
: 1522    1505 1 SIDE EFFECTS:  
: 1523    1506 1     NONE  
: 1524    1507 1  
: 1525    1508 1  
: 1526    1509 1 --  
: 1527    1510 1  
: 1528    1511 2 BEGIN  
: 1529    1512 2  
: 1530    1513 2 MAP  
: 1531    1514 2     EVT PTR : REF BBLOCK;  
: 1532    1515 2  
: 1533    1516 2     CHSFILL (0, EVT$K_LENGTH, .EVT PTR); ! Zero the event block  
: 1534    1517 2  
: 1535    1518 2     EVT PTR [EVTSW_CLASS] = .CLASS; ! Fill in the class code  
: 1536    1519 2  
: 1537    1520 2     If function is SET (FCT=1) then move the mask into the log mask.  
: 1538    1521 2     Otherwise (FCT=0), function is CLEAR so move the mask into the filter  
: 1539    1522 2     mask.  
: 1540    1523 2  
: 1541    1524 2     IF .FCT  
: 1542    1525 2     THEN  
: 1543    1526 2     CHSMOVE (.MSKLEN, .MSKPTR, EVT PTR [EVT$Q_LOGMSK])  
: 1544    1527 2  
: 1545    1528 2     ELSE  
: 1546    1529 2     CHSMOVE (.MSKLEN, .MSKPTR, EVT PTR [EVT$Q_FILTERMSK]);  
: 1547    1530 2 END:                      ! End of NML$BLDEVT
```

NHL SLOGOPS
V04-000

NML Logging data base operations module NMLSBLEVT Build an event class block

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NML
V04

1

; Routine Size: 36 bytes, Routine Base: SCODE\$ + 066A

```

: 1549      1531 1 XSBTTL 'NML$ADDSSRC Add a source block to buffer'
: 1550      1532 1 GLOBAL ROUTINE NML$ADDSSRC (BUFDSC, SRCDSC, SRCPTR) =
: 1551      1533 1
: 1552      1534 1 ++
: 1553      1535 1 FUNCTIONAL DESCRIPTION:
: 1554      1536 1 This routine adds a source block to the specified buffer.
: 1555      1537 1
: 1556      1538 1 FORMAL PARAMETERS:
: 1557      1539 1
: 1558      1540 1
: 1559      1541 1     BUFDSC      Descriptor of source block buffer.
: 1560      1542 1     SRCDSC      Descriptor of source block data in buffer.
: 1561      1543 1     SRCPTR      Pointer to source block to be added.
: 1562      1544 1
: 1563      1545 1 IMPLICIT INPUTS:
: 1564      1546 1     NONE
: 1565      1547 1
: 1566      1548 1 IMPLICIT OUTPUTS:
: 1567      1549 1     NONE
: 1568      1550 1
: 1569      1551 1
: 1570      1552 1
: 1571      1553 1 ROUTINE VALUE:
: 1572      1554 1 COMPLETION CODES:
: 1573      1555 1
: 1574      1556 1     Returns TRUE if the source block was added. Returns FALSE if
: 1575      1557 1     there was not enough room in the buffer.
: 1576      1558 1
: 1577      1559 1 SIDE EFFECTS:
: 1578      1560 1
: 1579      1561 1     NONE
: 1580      1562 1
: 1581      1563 1 --
: 1582      1564 1
: 1583      1565 2 BEGIN
: 1584      1566 2
: 1585      1567 2 MAP
: 1586      1568 2     BUFDSC : REF DESCRIPTOR.
: 1587      1569 2     SRCDSC : REF DESCRIPTOR.
: 1588      1570 2     SRCPTR : REF BBLOCK;
: 1589      1571 2
: 1590      1572 2
: 1591      1573 2     Make sure source block will fit in the buffer.
: 1592      1574 2
: 1593      1575 2     IF (.BUFDSC [DSCSW_LENGTH] - .SRCDSC [DSCSW_LENGTH])
: 1594      1576 2         LSS
: 1595      1577 2         .SRCPTR [SRCWS_LENGTH]
: 1596      1578 2     THEN
: 1597      1579 2         RETURN FALSE;
: 1598      1580 2
: 1599      1581 2     Block will fit so move it.
: 1600      1582 2
: 1601      1583 2     CH$MOVE (.SRCPTR [SRCWS_LENGTH],
: 1602      1584 2             .SRCPTR,
: 1603      1585 2             .SRCDSC [DSCSA_POINTER] + .SRCDSC [DSCSW_LENGTH]);
: 1604      1586 2
: 1605      1587 2     Calculate resulting buffer length.

```

```

: 1606      1588 2 !
: 1607      1589 2 SRCDSC [DSC$W_LENGTH] =
: 1608      1590 2     .SRCDSC [DSC$W_LENGTH] + .SRCPTR [SRC$W_LENGTH];
: 1609      1591 2
: 1610      1592 2     RETURN TRUE
: 1611      1593 2
: 1612      1594 1     END:
                                         ! End of NML$ADDSSRC

```

				007C 00000	.ENTRY	NML\$ADDSSRC, Save R2,R3,R4,R5,R6	: 1532
				56 08 04 AC D0 00002	MOVL	SRCDSC, R6	: 1575
				50 50 50 BC 3C 00006	MOVZWL	BUFDSCL, R0	
				51 66 51 C2 0000A	MOVZWL	(R6), R1	
				50 10 00 ED 00010	SUBL2	R1, R0	
50	OC BC			15 14 00016	CMPZV	#0, #16, ASRCPTR, R0	: 1577
				50 66 3C 00018	BGTR	1S	
				50 50 04 A6 C0 0001B	MOVZWL	(R6), R0	: 1585
				60 OC BC 0C BC 28 0001F	ADDL2	4(R6), R0	
				66 50 0C BC A0 00025	MOVC3	ASRCPTR, ASRCPTR, (R0)	
				50 01 D0 00029	ADDW2	ASRCPTR, (R6)	
				04 0002C	MOVL	#1, R0	: 1590
				50 D4 0002D 18:	RET		: 1592
				04 0002F	CLRL	R0	
					RET		: 1594

: Routine Size: 48 bytes, Routine Base: \$CODE\$ + 068E

1614 1595 1 %SBTTL 'NMLSREPSRC Replace a source block in buffer'
1615 1596 1 GLOBAL ROUTINE NMLSREPSRC (BUFDSC, SRCDSC, OLDSRC, NEWSRC) =
1616 1597 1
1617 1598 1 ++
1618 1599 1 : FUNCTIONAL DESCRIPTION:
1619 1600 1 : This routine adds a source block to the specified buffer.
1620 1601 1 :
1621 1602 1 : FORMAL PARAMETERS:
1622 1603 1 :
1623 1604 1 :
1624 1605 1 BUFDSC Descriptor of source block buffer.
1625 1606 1 SRCDSC Descriptor of source block data in buffer.
1626 1607 1 OLDSRC Pointer to old source block in buffer.
1627 1608 1 NEWSRC Pointer to source block to be added.
1628 1609 1
1629 1610 1 : IMPLICIT INPUTS:
1630 1611 1 : NONE
1631 1612 1 :
1632 1613 1 : IMPLICIT OUTPUTS:
1633 1614 1 :
1634 1615 1 : NONE
1635 1616 1 :
1636 1617 1 :
1637 1618 1 : ROUTINE VALUE:
1638 1619 1 : COMPLETION CODES:
1639 1620 1 :
1640 1621 1 : Returns TRUE if the source block was added. Returns FALSE if
1641 1622 1 : there was not enough room in the buffer.
1642 1623 1 :
1643 1624 1 : SIDE EFFECTS:
1644 1625 1 :
1645 1626 1 : NONE
1646 1627 1 :
1647 1628 1 :--
1648 1629 1 :
1649 1630 2 BEGIN
1650 1631 2 :
1651 1632 2 : MAP
1652 1633 2 BUFDSC : REF DESCRIPTOR,
1653 1634 2 SRCDSC : REF DESCRIPTOR,
1654 1635 2 OLDSRC : REF BBLOCK,
1655 1636 2 NEWSRC : REF BBLOCK;
1656 1637 2 :
1657 1638 2 LOCAL
1658 1639 2 FREELEN,
1659 1640 2 MOVLEN;
1660 1641 2 :
1661 1642 2 : Make sure source block will fit in the buffer.
1662 1643 2 :
1663 1644 2 FREELEN = .BUFDSC [DSCSW_LENGTH] -
1664 1645 2 .SRCDSC [DSCSW_LENGTH] +
1665 1646 2 .OLDSRC [SRCSW_LENGTH];
1666 1647 2 IF .FREELEN LSS .NEWSRC [SRCSW_LENGTH]
1667 1648 2 THEN
1668 1649 2 RETURN FALSE;
1669 1650 2 :
1670 1651 2 FREELEN = .FREELEN - .NEWSRC [SRCSW_LENGTH];

```

: 1671      1652 2 !
: 1672      1653 2 ! Block will fit so move it.
: 1673      1654 2 !
: 1674      1655 2 MOVLEN = .SRCDSR [DSCSA_POINTER] + .SRCDSR [DSCSW_LENGTH];
: 1675      1656 2 MOVLEN = .MOVLEN - .OLDSRC;
: 1676      1657 2 MOVLEN = .MOVLEN - .OLDSRC [SRCSW_LENGTH];
: 1677      1658 2
: 1678      1659 2 CH$MOVE (.MOVLEN,
: 1679      1660 2     :OLDSRC + .OLDSRC [SRCSW_LENGTH];
: 1680      1661 2     :OLDSRC + .NEWSRC [SRCSW_LENGTH]);
: 1681      1662 2
: 1682      1663 2 CH$MOVE (.NEWSRC [SRCSW_LENGTH],
: 1683      1664 2     .NEWSRC
: 1684      1665 2     .OLDSRC);
: 1685      1666 2 !
: 1686      1667 2 ! Calculate resulting buffer length.
: 1687      1668 2 !
: 1688      1669 2 SRCDSR [DSCSW_LENGTH] =
: 1689      1670 2     .BUFDSC [DSCSW_LENGTH] - .FREELEN;
: 1690      1671 2
: 1691      1672 2 RETURN TRUE
: 1692      1673 2
: 1693      1674 1 END:

```

! End of NML\$ADDSRC

			03FC 00000	.ENTRY	NML\$REPSRC, Save R2,R3,R4,R5,R6,R7,R8,R9	1596
	58	08	AC D0 00002	MOVL	SRCDSR, R8	1645
	50	04	BC 3C 00006	MOVZWL	@BUFDSC, R0	
	51	68	3C 0000A	MOVZWL	(R8), R1	
	50	51	C2 0000D	SUBL2	R1, R0	
	56	0C	AC D0 00010	MOVL	OLDSRC, R6	1646
	51	66	3C 00014	MOVZWL	(R6), R1	
	50	51	C1 00017	ADDL3	R1, R0, FREELEN	
59	57	10	BC 3C 0001B	MOVZWL	@NEWSRC, R7	1647
	57	59	D1 0001F	CMPL	FREELEN, R7	
		24	19 00022	BLSS	1\$	
		59	C2 00024	SUBL2	R7, FREELEN	1651
		50	68 3C 00027	MOVZWL	(R8), MOVLEN	1655
		50	A8 C0 0002A	ADDL2	4(R8), MOVLEN	
		50	56 C2 0002E	SUBL2	R6, MOVLEN	1656
		50	51 C2 00031	SUBL2	R1, MOVLEN	1657
6746	6146	50	28 00034	MOVC3	MOVLEN, (R1)[R6], (R7)[R6]	1661
66	10	BC	57 28 0003A	MOVC3	R7, @NEWSRC, (R6)	1665
68	04	BC	59 A3 0003F	SUBW3	FREELEN, @BUFDSC, (R8)	1670
		50	01 D0 00044	MOVL	#1, R0	1672
			04 00047	RET		
			50 D4 00048 1\$:	CLRL	R0	1674
			04 0004A	RET		

: Routine Size: 75 bytes. Routine Base: \$CODES + 06BE

1695 1675 1 ZSBTTL 'NML\$REMSRC Remove source block from buffer'
1696 1676 1 GLOBAL ROUTINE NML\$REMSRC (BLKDSC, SRCPTR) : NOVALUE =
1697 1677 1
1698 1678 1 !++
1699 1679 1 FUNCTIONAL DESCRIPTION:
1700 1680 1 This routine removes the specified source block from the buffer.
1701 1681 1
1702 1682 1 FORMAL PARAMETERS:
1703 1683 1
1704 1684 1
1705 1685 1 BLKDSC Descriptor of source block buffer.
1706 1686 1 SRCPTR Pointer to source block in buffer to be removed.
1707 1687 1
1708 1688 1 IMPLICIT INPUTS:
1709 1689 1
1710 1690 1 NONE
1711 1691 1
1712 1692 1 IMPLICIT OUTPUTS:
1713 1693 1
1714 1694 1 NONE
1715 1695 1
1716 1696 1 ROUTINE VALUE:
1717 1697 1 COMPLETION CODES:
1718 1698 1
1719 1699 1 NONE
1720 1700 1
1721 1701 1 SIDE EFFECTS:
1722 1702 1
1723 1703 1 NONE
1724 1704 1
1725 1705 1 --
1726 1706 1
1727 1707 2 BEGIN
1728 1708 2
1729 1709 2 MAP
1730 1710 2 BLKDSC : REF DESCRIPTOR,
1731 1711 2 SRCPTR : REF BBLOCK;
1732 1712 2
1733 1713 2 LOCAL
1734 1714 2 BUFEND,
1735 1715 2 LEN,
1736 1716 2 PTR;
1737 1717 2
1738 1718 2 Set up length and pointers to remove source block.
1739 1719 2
1740 1720 2 LEN = .SRCPTR [SRCSW_LENGTH];
1741 1721 2 PTR = .SRCPTR + .LEN;
1742 1722 2 BUFEND = .BLKDSC [DSCSA_POINTER] + .BLKDSC [DSCSW_LENGTH];
1743 1723 2
1744 1724 2 Move the end of the buffer back over the source block to be removed.
1745 1725 2
1746 1726 2 CH\$MOVE (.BUFEND - .PTR,
1747 1727 2 .PTR,
1748 1728 2 .SRCPTR);
1749 1729 2
1750 1730 2 Update the descriptor.
1751 1731 2

NML\$LOGOPS
VO4-000

NML Logging data base operations module
NML\$REMSRC Remove source block from buffer

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: 1752 1732 2 BLKDSC [DSCSW_LENGTH] =
: 1753 1733 2 .BLKDSC [DSCSW_LENGTH] - .LEN;
: 1754 1734 2
: 1755 1735 1 END:

! End of NML\$REMSRC

			00FC 00000	.ENTRY NML\$REMSRC, Save R2,R3,R4,R5,R6,R7	: 1676
		51	57 08 BC 3C 00002	MOVZWL @SRCPTR, LEN	: 1720
			57 08 AC C1 00006	ADDL3 SRCPTR, LEN, PTR	: 1721
			56 04 AC D0 00008	MOVL BLKDSC, R6	: 1722
			50 66 3C 000CF	MOVZWL (R6), BUFEND	
			50 04 A6 C0 00012	ADDL2 4(R6), BUFEND	
			50 51 C2 00016	SUBL3 PTR, R0	: 1726
08	BC		61 50 28 00019	MOVC3 R0, (PTR), @SRCPTR	: 1728
			66 57 A2 0001E	SUBW2 LEN, (R6)	: 1733
			04 00021	RET	: 1735

; Routine Size: 34 bytes, Routine Base: SCODES + 0709

NML
VO4

1757 1736 1 ISBTTL 'NML\$ADDEVT Add an event block to source buffer'
1758 1737 1 GLOBAL ROUTINE NML\$ADDEVT (BUFDSC, SRCPTR, EVTPTR) =
1759 1738 1
1760 1739 1 ++
1761 1740 1 FUNCTIONAL DESCRIPTION:
1762 1741 1 This routine adds an event block to the specified source buffer.
1763 1742 1
1764 1743 1 FORMAL PARAMETERS:
1765 1744 1
1766 1745 1
1767 1746 1 BUFDSC Descriptor of buffer containing source block.
1768 1747 1 SRCPTR Pointer to source block in buffer.
1769 1748 1 EVTPTR Pointer to event block to be added.
1770 1749 1
1771 1750 1 IMPLICIT INPUTS:
1772 1751 1
1773 1752 1 NONE
1774 1753 1
1775 1754 1 IMPLICIT OUTPUTS:
1776 1755 1
1777 1756 1 NONE
1778 1757 1
1779 1758 1 ROUTINE VALUE:
1780 1759 1 COMPLETION CODES:
1781 1760 1
1782 1761 1 Returns TRUE if the event block was added. Returns FALSE if
1783 1762 1 there was not enough room in the buffer.
1784 1763 1
1785 1764 1 SIDE EFFECTS:
1786 1765 1
1787 1766 1 NONE
1788 1767 1
1789 1768 1 --
1790 1769 1
1791 1770 2 BEGIN
1792 1771 2
1793 1772 2 MAP
1794 1773 2 BUFDSC : REF DESCRIPTOR,
1795 1774 2 SRCPTR : REF BBLOCK,
1796 1775 2 EVTPTR : REF BBLOCK;
1797 1776 2
1798 1777 2 Make sure event block will fit in the buffer.
1799 1778 2
1800 1779 2 IF (.BUFDSC [DSCSW_LENGTH] - .SRCPTR [SRCSW_LENGTH])
1801 1780 2 LSS
1802 1781 2 EVTSK_LENGTH
1803 1782 2 THEN
1804 1783 2 RETURN FALSE;
1805 1784 2
1806 1785 2 Block will fit so move it.
1807 1786 2
1808 1787 2 CHSMOVE (EVTSK_LENGTH,
1809 1788 2 .EVTPTR,
1810 1789 2 .SRCPTR + .SRCPTR [SRCSW_LENGTH]);
1811 1790 2
1812 1791 2 Calculate resulting buffer length and store it in source block.
1813 1792 2 Also increment the mask count.

```

: 1814      1793 2 !
: 1815      1794 2
: 1816      1795 2   SRCPTR [SRC$W_LENGTH] =
: 1817      1796 2   .SRCPTR [SRC$W_LENGTH] + EVISK_LENGTH;
: 1818      1797 2
: 1819      1798 2   SRCPTR [SRC$W_MSKCOUNT] =
: 1820      1799 2   .SRCPTR [SRC$W_MSKCOUNT] + 1;
: 1821      1800 2
: 1822      1801 2
: 1823      1802 1   RETURN TRUE
                     END;
                           ! End of NMLSADDEVT

```

				007C 00000	.ENTRY	NMLSADDEVT, Save R2,R3,R4,R5,R6	:	1737
			56	08 AC D0 00002	MOVL	SRCPTR, R6	:	1779
			51	66 3C 00006	MOVZWL	(R6), R1	:	
50	04 BC		50	14 A1 9E 00009	MOVAB	20(R1), R0	:	1780
			10	00 ED 0000D	CMPZV	#0, #16, ABUFDESC, R0	:	
				10 19 00013	BLSS	1\$:	
		6146	0C BC	14 28 00015	MOVC3	#20, BEVTPTR, (R1)[R6]	:	1789
			66	14 A0 0001B	ADDW2	#20, (R6)	:	1795
				50 16 B6 0001E	INCW	22(R6)	:	1798
				01 D0 00021	MOVL	#1, R0	:	1800
				04 00024	RET		:	
				50 D4 00025 1\$:	CLRL	R0	:	1802
				04 00027	RET		:	

: Routine Size: 40 bytes. Routine Base: \$CODES + 072B

1825 1803 1 ISBTTL 'NML\$MODEVT Modify event block'
1826 1804 1 GLOBAL ROUTINE NML\$MODEVT (FCT, ZER, EVTPTR, MSKLEN, MSKPTR) : NOVALUE =
1827 1805 1
1828 1806 1 ++
1829 1807 1 FUNCTIONAL DESCRIPTION:
1830 1808 1 This routine the modifies the specified event block.
1831 1809 1
1832 1810 1 FORMAL PARAMETERS:
1833 1811 1
1834 1812 1
1835 1813 1 FCT Mask operation code. (FALSE=CLEAR, TRUE=SET).
1836 1814 1 ZER Zero flag. (TRUE=yes, FALSE=no).
1837 1815 1 EVTPTR Pointer to event block.
1838 1816 1 MSKLEN Length of mask value to be added.
1839 1817 1 MSKPTR Pointer to mask value to be added.
1840 1818 1
1841 1819 1 IMPLICIT INPUTS:
1842 1820 1 NONE
1843 1821 1
1844 1822 1 IMPLICIT OUTPUTS:
1845 1823 1 NONE
1846 1824 1
1847 1825 1
1848 1826 1
1849 1827 1 ROUTINE VALUE:
1850 1828 1 COMPLETION CODES:
1851 1829 1
1852 1830 1 NONE
1853 1831 1
1854 1832 1 SIDE EFFECTS:
1855 1833 1
1856 1834 1 NONE
1857 1835 1
1858 1836 1 --
1859 1837 1
1860 1838 2 BEGIN
1861 1839 2
1862 1840 2 MAP
1863 1841 2 EVTPTR : REF BBLOCK,
1864 1842 2 MSKPTR : REF BITVECTOR;
1865 1843 2
1866 1844 2 LOCAL
1867 1845 2 BITLEN, ! Length of mask in bits
1868 1846 2 OLDMSK : REF BITVECTOR, ! Mask not changed
1869 1847 2 RESMSK : REF BITVECTOR; ! Address of result mask
1870 1848 2
1871 1849 2 If the operation is SET (FCT=1) then modify log mask.
1872 1850 2 Otherwise, operation is CLEAR (FCT=0) so modify filter mask.
1873 1851 2
1874 1852 2 IF .FCT
1875 1853 2 THEN
1876 1854 2 BEGIN
1877 1855 2 RESMSK = EVTPTR [EVT\$Q_LOGMSK];
1878 1856 2 OLDMSK = EVTPTR [EVT\$Q_FILTERMSK];
1879 1857 2 END
1880 1858 2 ELSE
1881 1859 2 BEGIN

```

1882      1860      RESMSK = EVT PTR [EVT$Q_FILTERMSK];
1883      1861      OLDMSK = EVT PTR [EVT$Q_LOGMSK];
1884      1862      END;
1885      1863
1886      1864      ! Set the correct bits in the result mask.
1887      1865
1888      1866      BITLEN = .MSKLEN * 8;
1889      1867      INCR I FROM 0 TO .BITLEN - 1 DO
1890      1868      BEGIN
1891      1869      RESMSK [.I] = .RESMSK [.I] OR .MSKPTR [.I];
1892      1870      OLDMSK [.I] = .OLDMSK [.I] AND NOT .MSKPTR [.I];
1893      1871
1894      1872
1895      1873
1896      1874      END;
1897      1875
1898      1876      ! If the other mask should be zeroed (ZER=TRUE) then zero it.
1899      1877
1900      1878      IF .ZER
1901      1879      THEN
1902      1880      BEGIN
1903      1881      MAP OLDMSK : REF VECTOR [, BYTE];
1904      1882
1905      1883
1906      1884      INCR I FROM 0 TO EVT$S_LOGMSK - 1 DO
1907      1885      BEGIN
1908      1886      OLDMSK [.I] = 0;
1909      1887      END;
1910      1888      END;
1911      1889
1912      1890
1913      1891
1914      1892      ! End of NMLSMODEV7

```

51	OC	AC			003C	00000		.ENTRY	NML\$MODEVT,	Savo	R2,R3,R4,R5		1804	
50	OC	AC			04	C1 00002		ADDL3	#4	EVTPTR	R1		1855	
			05		0C	C1 00007		ADDL3	#12	EVTPTR	R0		1856	
			53		06	E9 0000C		BLBC	FCT.	1S			1852	
			53		50	7D 00010		MOVQ	R0.	OLDMSK			1856	
			54		06	11 00013		BRB	2S				1852	
			53		50	D0 00015	18:	MOVL	R0.	RESMSK			1860	
			53		51	D0 00018		MOVL	R1.	OLDMSK			1861	
			55	10	03	78 0001B	28:	ASHL	#3.	MSKLEN.	BITLEN		1866	
			51		01	CE 00020		MNEGL	#1.	I			1872	
					26	11 00023		BRB	4S					
52			01		51	EF 00025	38:	EXTZV	I.	#1.	(RESMSK), R2		1871	
50	14	BC	01		51	EF 0002A		EXTZV	I.	#1.	AMSKPTR, R0			
			50		52	C8 00030		BISL2	R2.	R0				
64			51		50	FO 00033		INSV	R0.	I.	#1.	(RESMSK)		
52			01		51	EF 00038		EXTZV	I.	#1.	(OLDMSK), R2		1872	
50	14	BC	01		51	EF 0003D		EXTZV	I.	#1.	AMSKPTR, R0			
			52		50	CA 00043		BICL2	R0.	R2				
63			51		52	FO 00046		INSV	R2.	I.	#1.	(OLDMSK)		

NML\$LOGOPS
V04-000

NML Logging data base operations module
NML\$MODEVT Modify event block

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[NML.SRC]NMLLOGOPS.B32;1

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D6	51	08	55	F2	0004B	48:	A0BLSS	BITLEN I, 3\$
	09		AC	E9	0004F		BLBC	ZER, 6\$
			51	D4	00053		CLRL	I
F9	51		6143	94	00055	58:	CLRB	{I}[OLDMSK]
			07	F3	00058		A0BLEQ	#7, I, 58
				04	0005C	68:	RET	

: Routine Size: 93 bytes. Routine Base: \$CODES + 0753

: 1868
: 1878
: 1884
: 1887
: 1884
: 1892

NM
VO

1916 1893 1 %SBTTL 'NML\$REMEVT Remove event block from source buffer'
1917 1894 1 GLOBAL ROUTINE NML\$REMEVT (SRCPTR, EVT PTR) : NOVALUE =
1918 1895 1
1919 1896 1 ++
1920 1897 1 FUNCTIONAL DESCRIPTION:
1921 1898 1
1922 1899 1 This routine removes the specified event block from the source buffer.
1923 1900 1
1924 1901 1 FORMAL PARAMETERS:
1925 1902 1
1926 1903 1 SRCPTR Pointer to source block.
1927 1904 1 EVT PTR Pointer to event block to be removed from source.
1928 1905 1
1929 1906 1 IMPLICIT INPUTS:
1930 1907 1
1931 1908 1 NONE
1932 1909 1
1933 1910 1 IMPLICIT OUTPUTS:
1934 1911 1
1935 1912 1 NONE
1936 1913 1
1937 1914 1 ROUTINE VALUE:
1938 1915 1 COMPLETION CODES:
1939 1916 1
1940 1917 1 NONE
1941 1918 1
1942 1919 1 SIDE EFFECTS:
1943 1920 1
1944 1921 1 NONE
1945 1922 1
1946 1923 1 --
1947 1924 1
1948 1925 2 BEGIN
1949 1926 2
1950 1927 2 MAP
1951 1928 2 SRCPTR : REF BBLOCK,
1952 1929 2 EVT PTR : REF BBLOCK;
1953 1930 2
1954 1931 2 LOCAL
1955 1932 2 BUFEND,
1956 1933 2 PTR;
1957 1934 2
1958 1935 2 Set up length and pointers to remove event block.
1959 1936 2
1960 1937 2 PTR = .EVT PTR + EVT\$K_LENGTH;
1961 1938 2 BUFEND = .SRCPTR + .SRCPTR [SRC\$W_LENGTH];
1962 1939 2
1963 1940 2 Move the end of the buffer back over the event block to be removed.
1964 1941 2
1965 1942 2 CHSMOVE (.BUFEND - .PTR,
1966 1943 2 .PTR,
1967 1944 2 .EVT PTR);
1968 1945 2
1969 1946 2 Update the length of the source block.
1970 1947 2 Also decrement the mask count.
1971 1948 2
1972 1949 2 SRCPTR [SRC\$W_LENGTH] =

```

: 1973    1950 2      .SRCPTR [SRC$W_LENGTH] - EVT$K_LENGTH;
: 1974    1951 2
: 1975    1952 2      SRCPTR [SRC$W_MSKCOUNT] =
: 1976    1953 2      .SRCPTR [SRC$W_MSKCOUNT] - 1;
: 1977    1954 2
: 1978    1955 1      END;                                ! End of NMLSREMEVT

```

<pre> 51 08 AC 007C 00000 56 14 C1 00002 04 AC D0 00007 50 66 3C 0000B 50 56 C0 0000E 50 51 C2 00011 08 BC 61 50 28 00014 66 14 A2 00019 16 A6 B7 0001C 04 0001F </pre>	<pre> .ENTRY NMLSREMEVT, Save R2,R3,R4,R5,R6 : 1894 ADDL3 #20, EVT PTR, PTR : 1937 MOVL SRC PTR, R6 : 1938 MOVZWL (R6), BUFEND ADDL2 R6, BUFEND SUBL2 PTR, R0 : 1942 MOVC3 R0, (PTR), @EVT PTR : 1944 SUBW2 #20, (R6) : 1950 DECW 22(R6) : 1953 RET : 1955 </pre>
---	---

: Routine Size: 32 bytes, Routine Base: SCODE\$ + 07B0

NML\$LOGOPS
V04-000

NML Logging data base operations module
NML\$REMEVT Remove event block from source buff

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: 1980 1956 1 END
: 1981 1957 1
: 1982 1958 0 ELUDOM

! End of module

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	1044	NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$SPLITS	40	NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$CODES	2000	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	Total	Symbols	Pages	Processing
	Loaded	Percent	Mapped	Time
-\$255\$DUA28:[NML.OBJ]NMLLIB.L32;1	341	40	11	00:00.1
-\$255\$DUA28:[SHRLIB]NMALIBRY.L32;1	887	5	0	00:00.2
-\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	2	0	00:02.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:NMLLOGOPS/OBJ=OBJ\$:NMLLOGOPS MSRC\$:NMLLOGOPS/UPDATE=(ENH\$:NMLLOGOPS)

Size: 2000 code + 1084 data bytes

Run Time: 00:40.1

Elapsed Time: 01:39.0

Lines/CPU Min: 2931

Lexemes/CPU-Min: 12503

Memory Used: 134 pages

Compilation Complete

0284 AH-BT13A-SE
VAX/VMS V4.0

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